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*Fred C.*  
**Gloeckner** *+ Co., Inc.*

*New York 10, 779*

RECEIVED  
MAR 9 1960  
U.S. Department of Agriculture

**CHRYSANTHEMUM  
MANUAL**

**1960**

## TERMS

The base price for each variety is listed with the variety. What you actually pay for each Mum cutting depends upon the amount of "earned credit discount" that you establish by:

1. The number of weeks your order is placed in advance of requested shipping date.
2. The number of cuttings you order for shipment within a 52 week period.
3. The promptness with which you pay the invoice for mums—within 20 days.

### Discounts Effective January 4, 1960

#### Early Order—Prompt Payment Discount

The number of weeks an order is recorded in advance of shipping date.

If Order Is Received	Discount Will Be
Less than 4 weeks prior to shipping.....	2%
4-5 weeks prior to shipping.....	5%
6-9 weeks prior to shipping.....	6%
10-13 weeks prior to shipping.....	7%
14-17 weeks prior to shipping.....	8%
18-21 weeks prior to shipping.....	9%
22 weeks or more prior to shipping.....	12%

**THE EARLY ORDER—PROMPT PAYMENT DISCOUNT IS AVAILABLE WHEN INVOICE IS PAID WITHIN 20 DAYS.**

#### Volume Discount

If you have ordered 10,000 or more cuttings during the 52 weeks prior to placing your order, the following firm discounts apply.

10,000 .....	3%
30,000 .....	5%
60,000 .....	6%
100,000 .....	7%
150,000 .....	9%
210,000 .....	10%
280,000 .....	11%

Inquire about the discount schedule above these amounts.

### TERMS OF SALE

Fifty rooted cuttings of each variety is the minimum that can be supplied. More than 50 of a variety must be in multiples of 50.

Any changes or cancellation of chrysanthemum orders must be received at least 30 days before shipping date. Every effort is being made to deliver stock which is free from pests, but purchases must be made with the understanding that we assume no responsibility for losses which may result from same.

To facilitate deliveries, cuttings will be shipped on Monday and Tuesday of each week. However, we will gladly make shipment on Friday or Saturday, if specifically requested and provided the order is received one month prior to the requested shipping date.

**WARRANTY AND LIMITATION OF LIABILITY:** Subject to the limitations of liability herein set forth, we warrant that the seeds, plants or bulbs sold are as described on the container, within recognized tolerances. Our liability on this warranty is limited in amount to the purchase price of the seeds, plants or bulbs. In no event shall we be liable for the crop, or for any loss due to the failure, impairment or quality thereof or varietal variance therein, whether such loss results from breach of the foregoing warranty, from breach of any other provision of the buyer's contract for purchases of said seeds, plants or bulbs, or from any other cause.

**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**

Fred C.  
**Gloeckner**  
&  
Company,  
Incorporated

**15 EAST 26th STREET  
NEW YORK 10, NEW YORK**

**Telephone: ORegon 9-6460-6461  
Cable Address: GLOECKNERS, N. Y.**



## FAST DISBUDS AND FAST SPRAYS

Varieties suitable for this program include not only a number of popular standard types such as the Indianapolis group, but also numerous large flowered pompon, single, decoratives, and anemone types, which, when disbudded to one flower, result in three to four inch blooms, this being the size range that is generally sought for. Stem lengths generally range from 24 to 30 inches.

### Why are They Becoming Popular?

First of all, they are distinctively beautiful and versatile in their use. The chrysanthemum, as is known in European floriculture, is devoted exclusively to these intermediate to large disbuds. It is thought that this method of culture partly resulted because the greatest percentage of flowers produced are purchased directly for home use. Thus, they can justifiably be called "Home-size-mums" with great future potential as we on the North American continent look forward to an expansion in our present home markets. The retail designer will use them to the same advantage as he does a carnation or a snapdragon because of their individuality in arrangement, but will favor the disbudded mum because of its rigid durability both in handling and in keeping qualities.

### Efficient Croppers and Money Makers for the Producer

The schedule allows for approximately 3 and  $\frac{1}{3}$  crops to be produced on a given bench area within a 52-week period which will produce a total of 36 to 40 individual flowers per sq. ft. As markets are both developed and educated to absorb these shorter stemmed disbuds, even greater efficiencies in reducing total crop time will be possible.

### How are They Grown?

**Spacing**—Allowing a minimum of 12 sq. inches for each flowering stem during the higher light periods of the year ranging to a maximum of 15 to 18 sq. inches per stem during the lowest and poorest light periods, has been found to be sufficiently adequate to produce this crop.

Since this crop is to be pinched, the recommendation is to plant either 4" x 6" apart and prune each plant to two stems or plant 6" x 6" and prune each plant to three stems.

Optimum grade uniformity is generally achieved by permitting only two stems to remain on each plant. This procedure is specifically recommended when the large standard types of mums (Indianapolis, etc.) are

to be grown in this fast schedule, whereas many of the intermediate type disbud varieties will readily support three stems per plant. Either method of handling will provide the same total production per given sq. ft. of bench area.



MARKET PACK OF FAST DISBUD

### RECOMMENDED SPACING

Summer Flowering	6" x 4"	Two stems per plant
Spring & Fall	6" x 5"	Two stems per plant
Winter Flowering	6" x 6"	Two stems per plant

**Pruning**—Selecting the two or three most uniformly vigorous shoots on each pinched plant and removing the remaining or extra breaks should be done at the earliest possible time. If growth is freely active, this pruning operation can be done 10 to 14 days after the pinch. Careless delay in the pruning operation will shorten the height of the crop below that which is normally possible with the given schedule.

**Disbudding**—Much like the pruning operation. In order to achieve maximum flower development and size, select the one flowering bud, usually the terminal bud, early, whenever the side buds are firm and can be rolled or snapped off easily.

**Cultural Pointers**—The principles of growing Fast Disbuds as related to soils, planting, fertilizing, temperature, watering, insect and disease control, are essentially the same as are recommended and required in the production of a regular scheduled crop of either pompons or standards.

## YEAR-ROUND FAST SCHEDULE

### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	SHADE	RESPONSE GROUP
JANUARY 2, 1961	AUG. 29	SEPT. 19	AUG. 29 - OCT. 10 AUG. 29 - OCT. 17 AUG. 29 - OCT. 24	NO NO NO	12 WEEK 11 WEEK 10 WEEK
JANUARY 9, 1961	SEPT. 5	SEPT. 26	SEPT. 5 - OCT. 17 SEPT. 5 - OCT. 24 SEPT. 5 - OCT. 31	NO NO NO	12 WEEK 10 WEEK 11 WEEK
JANUARY 16, 1961	SEPT. 12	OCT. 3	SEPT. 12 - OCT. 24 SEPT. 12 - OCT. 31 SEPT. 12 - NOV. 7	NO NO NO	12 WEEK 11 WEEK 10 WEEK
JANUARY 23, 1961	SEPT. 19	OCT. 10	SEPT. 19 - OCT. 31 SEPT. 19 - NOV. 7 SEPT. 19 - NOV. 14	NO NO NO	12 WEEK 11 WEEK 10 WEEK
JANUARY 30, 1961	SEPT. 26	OCT. 17	SEPT. 26 - NOV. 7 SEPT. 26 - NOV. 14 SEPT. 26 - NOV. 21	NO NO NO	12 WEEK 11 WEEK 10 WEEK
FEBRUARY 6, 1961	OCT. 3	OCT. 24	OCT. 3 - NOV. 14 OCT. 3 - NOV. 21 OCT. 3 - NOV. 28	NO NO NO	12 WEEK 11 WEEK 10 WEEK
FEBRUARY 13, 1961	OCT. 10	OCT. 31	OCT. 10 - NOV. 21 OCT. 10 - NOV. 28 OCT. 10 - DEC. 5	NO NO NO	12 WEEK 11 WEEK 10 WEEK
FEBRUARY 20, 1961	OCT. 17	NOV. 7	OCT. 17 - NOV. 28 OCT. 17 - DEC. 5 OCT. 17 - DEC. 12	NO NO NO	12 WEEK 11 WEEK 10 WEEK
FEBRUARY 27, 1961	OCT. 24	NOV. 14	OCT. 24 - DEC. 5 OCT. 24 - DEC. 12 OCT. 24 - DEC. 19	NO NO NO	12 WEEK 11 WEEK 10 WEEK

### VARIETIES IN RESPONSE GROUPS

	12 WEEK	11 WEEK	10 WEEK
<b>WHITE</b>	WHITE PETER JOHN CHAMP ILLINI GLACIER	WHITE NORMA MARKETEER ERMINE JOHN BAUMANN	IND. WHITE IMP. IND. WHITE IND. NO. 3 WHITE
<b>YELLOW</b>	YELLOW PETER JOHN YELLOW GLORY	SHANE SUSANNE MILLER YELLOW MARKETEER	IND. YELLOW IMP. IND. YELLOW LUYONA
<b>BRONZE &amp; RED</b>	BRONZE PETER JOHN FOREVER AMBER RED EMPRESS	VALENTINE OLNURA	IND. BRONZE DARK IND. BRONZE WOKING SCARLET
<b>PINK</b>	PINK PETER JOHN EMPRESS	DARK NORMA VEDOVA VENOYA THANKS. PINK	IND. PINK SOUTHDOWN PINK PLUM LAUGHTER



## YEAR-ROUND FAST SCHEDULE

## FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
MARCH 6, 1961	OCT. 31	NOV. 21	OCT. 31 - DEC. 19 OCT. 31 - DEC. 26 OCT. 31 - JAN. 2	NO NO NO	11 WEEK 10 WEEK 9 WEEK
MARCH 13, 1961	NOV. 7	DEC. 5	NOV. 7 - DEC. 26 NOV. 7 - JAN. 2 NOV. 7 - JAN. 9	NO NO NO	11 WEEK 10 WEEK 9 WEEK
MARCH 20, 1961	NOV. 14	DEC. 12	NOV. 14 - JAN. 2 NOV. 14 - JAN. 9 NOV. 14 - JAN. 16	NO NO NO	11 WEEK 10 WEEK 9 WEEK
MARCH 27, 1961	NOV. 28	DEC. 26	NOV. 28 - JAN. 9 NOV. 28 - JAN. 16 NOV. 28 - JAN. 23	NO NO NO	11 WEEK 10 WEEK 9 WEEK
APRIL 3, 1961	DEC. 5	JAN. 2	DEC. 5 - JAN. 23 DEC. 5 - JAN. 30 DEC. 5 - FEB. 6	NO NO NO	10 WEEK 9 WEEK 8 WEEK
APRIL 10, 1961	DEC. 19	JAN. 16	DEC. 19 - JAN. 30 DEC. 19 - FEB. 6 DEC. 19 - FEB. 13	NO NO NO	10 WEEK 9 WEEK 8 WEEK
APRIL 17, 1961	DEC. 26	JAN. 23	DEC. 26 - FEB. 6 DEC. 26 - FEB. 13 DEC. 26 - FEB. 20	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK
APRIL 24, 1961	JAN. 9	FEB. 6	JAN. 9 - FEB. 13 JAN. 9 - FEB. 20 JAN. 9 - FEB. 27	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK

## VARIETIES IN RESPONSE GROUPS

	11 WEEK	10 WEEK	9 WEEK	8 WEEK
WHITE	WHITE NORMA MARKETEER ERMINE JOHN BAUMANN	IND. WHITE IMP. IND. WHITE IND. NO. 3 WHITE ICEBERG	SILVER BOW DONLOPE'S WHITE SPIDER QUEEN'S LACE CAMILLE BAUMANN	
YELLOW	SHANE SUSANNE MILLER YELLOW MARKETEER	IMP. IND. YELLOW IND. YELLOW YELLOW ICEBERG CHAIRMAN	LUYONA GOLD LACE YELLOW IVANHOE	HARVET GOLDEN BLAZING GOLD
BRONZE & RED	VALENTINE OLNURA	DARK IND. BRONZE DAYBREAK WOKING SCARLET	STUART OGG IVANHOE	AMBER BRIGHT MAYFORD TITAN
PINK	PIONEER VEDOVA VENOYA	IND. PINK. SOUTHDOWN PINK PLUM LAUGHTER	BLUE RIBBON BUNBU	

## YEAR-ROUND FAST SCHEDULE

### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
MAY 2, 1960	JAN. 18	FEB. 15	JAN. 18 - FEB. 22 JAN. 18 - FEB. 29 JAN. 19 - MAR. 7	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
MAY 9, 1960	JAN. 25	FEB. 22	JAN. 25 - FEB. 29 JAN. 25 - MAR. 7 JAN. 25 - MAR. 14	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
MAY 16, 1960	FEB. 1	FEB. 22	FEB. 1 - MAR. 7 FEB. 1 - MAR. 14 FEB. 1 - MAR. 21	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
MAY 23, 1960	FEB. 15	MAR. 7	FEB. 15 - MAR. 14 FEB. 15 - MAR. 21 FEB. 15 - MAR. 28	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
MAY 30, 1960	FEB. 22	MAR. 14	FEB. 22 - MAR. 21 FEB. 22 - MAR. 28 FEB. 22 - APR. 4	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
JUNE 6, 1960	MAR. 7	MAR. 28	MAR. 7 - MAR. 28 MAR. 7 - APR. 4 MAR. 7 - APR. 11	MAR. 28 APR. 4 APR. 11	10 WEEK 9 WEEK 8 WEEK
JUNE 13, 1960	MAR. 14	APR. 4	MAR. 14 - APR. 4 MAR. 14 - APR. 11 MAR. 14 - APR. 18	APR. 4 APR. 11 APR. 18	10 WEEK 9 WEEK 8 WEEK
JUNE 20, 1960	MAR. 21	APR. 11	MAR. 21 - APR. 11 MAR. 21 - APR. 18 MAR. 21 - APR. 25	APR. 11 APR. 18 APR. 25	10 WEEK 9 WEEK 8 WEEK
JUNE 27, 1960	MAR. 28	APR. 18	MAR. 28 - APR. 18 MAR. 28 - APR. 25 MAR. 28 - MAY 2	APR. 18 APR. 25 MAY 2	10 WEEK 9 WEEK 8 WEEK

### VARIETIES IN RESPONSE GROUPS

	10 WEEK	9 WEEK	8 WEEK
WHITE	IND. WHITE IMP. IND. WHITE IND. NO. 3 WHITE ICEBERG ICE CREAM ENSIGN	SILVER BOW MARBLEHEAD MOONTIDE DONLOPE'S WHITE SPIDER QUEEN'S LACE CAMILLE BAUMANN	WHITE PINK CHIEF
YELLOW	IMP. IND. YELLOW IND. YELLOW CHAIRMAN EXPLORER YELLOW ICEBERG	GOLDEN HERALD MECCA LUYONA GOLD LACE YELLOW IVANHOE	HARVEST GOLDEN CELESTRA BLAZING GOLD
BRONZE & RED	IND. BRONZE DARK IND. BRONZE DAYBREAK	DOROTHY HYDE SUNDOWN ZYLON DUCHESS FRED YULE	AMBER BRIGHT MAYFORD TITAN
PINK	IND. PINK VANGUARD SOUTHDOWN PINK PLUM LAUGHTER	THOMAS JOHNSON BLUE RIBBON BUNBU MARY GARDEN MISS AMERICA	



## YEAR-ROUND FAST SCHEDULE

### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
JULY 4, 1960	APR. 4	APR. 25	APR. 4 - APR. 25 APR. 4 - MAY 2 APR. 4 - MAY 9	APR. 25 MAY 2 MAY 9	10 WEEK 9 WEEK 8 WEEK
JULY 11, 1960	APR. 11	MAY 2	APR. 11 - MAY 2 APR. 11 - MAY 9 APR. 11 - MAY 16	MAY 2 MAY 9 MAY 16	10 WEEK 9 WEEK 8 WEEK
JULY 18, 1960	APR. 18	MAY 9	APR. 18 - MAY 9 APR. 18 - MAY 16 APR. 18 - MAY 23	MAY 9 MAY 16 MAY 23	10 WEEK 9 WEEK 8 WEEK
JULY 25, 1960	APR. 25	MAY 16	APR. 25 - MAY 16 APR. 25 - MAY 23 APR. 25 - MAY 30	MAY 16 MAY 23 MAY 30	10 WEEK 9 WEEK 8 WEEK
AUGUST 1, 1960	MAY 2	MAY 16	NO	MAY 23 MAY 30 JUNE 6	10 WEEK 9 WEEK 8 WEEK
AUGUST 8, 1960	MAY 9	MAY 23	NO	MAY 30 JUNE 6 JUNE 13	10 WEEK 9 WEEK 8 WEEK
AUGUST 15, 1960	MAY 16	MAY 30	NO	JUNE 6 JUNE 13 JUNE 20	10 WEEK 9 WEEK 8 WEEK
AUGUST 22, 1960	MAY 23	JUNE 6	NO	JUNE 13 JUNE 20 JUNE 27	10 WEEK 9 WEEK 8 WEEK
AUGUST 29, 1960	MAY 30	JUNE 13	NO	JUNE 20 JUNE 27 JULY 4	10 WEEK 9 WEEK 8 WEEK

### VARIETIES IN RESPONSE GROUPS

	10 WEEK	9 WEEK	8 WEEK
WHITE	IND. WHITE IMP. IND. WHITE IND. NO. 3 WHITE ENSIGN	SILVER BOW MARBLEHEAD MOONTIDE DONLOPE'S WHITE SP. QUEEN'S LACE THEMESONG WHITE MARY GARDEN	WHITE PINK CHIEF
YELLOW	IMP. IND. YELLOW IND. GOLD LUXURY	GOLDEN HERALD YEL. MARBLEHEAD MECCA LUYONA GOLD LACE YELLOW IVANHOE	CELESTRA
BRONZE & RED	DAYBREAK	ZYLON SUNDOWN FRED YULE	AMBER BRIGHT
PINK	VANGUARD LAUGHTER	BUNBU MISS AMERICA	

YEAR-ROUND FLOWERING

POT PLANT SCHEDULE

VARIETY SCHEDULE

## YEAR-ROUND FAST SCHEDULE

### FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
SEPTEMBER 5, 1960	JUNE 6	JUNE 20	NO	JUNE 27 JULY 4 JULY 11	10 WEEK 9 WEEK 8 WEEK
SEPTEMBER 12, 1960	JUNE 13	JUNE 27	NO	JULY 4 JULY 11 JULY 18	10 WEEK 9 WEEK 8 WEEK
SEPTEMBER 19, 1960	JUNE 20	JULY 4	NO	JULY 11 JULY 18 JULY 25	10 WEEK 9 WEEK 8 WEEK
SEPTEMBER 26, 1960	JUNE 20	JULY 4	NO	JULY 18 JULY 25 AUG. 1	10 WEEK 9 WEEK 8 WEEK
OCTOBER 3, 1960	JUNE 27	JULY 11	NO	JULY 25 AUG. 1 AUG. 8	10 WEEK 9 WEEK 8 WEEK
OCTOBER 10, 1960	JULY 4	JULY 18	NO	JULY 25 AUG. 1 AUG. 8	11 WEEK 10 WEEK 9 WEEK
OCTOBER 17, 1960	JULY 4	JULY 18	NO	AUG. 1 AUG. 8 AUG. 15	11 WEEK 10 WEEK 9 WEEK
OCTOBER 24, 1960	JULY 11	JULY 25	NO	AUG. 8 AUG. 15 AUG. 22	11 WEEK 10 WEEK 9 WEEK

### VARIETIES IN RESPONSE GROUPS

	11 WEEK	10 WEEK	9 WEEK	8 WEEK
<b>WHITE</b>	MARKETEER ERMINE JOHN BAUMANN	IND. WHITE IMP. IND. WHITE IND. NO. 3 WHITE ICEBERG ENSIGN	SILVER BOW MARBLEHEAD DONLOPE'S WH. SPIDER QUEEN'S LACE THEMESONG	WHITE PINK CHIEF
<b>YELLOW</b>	SHANE YEL. MARKETEER SULTAN	IMP. IND. YELLOW IND. YELLOW EXPLORER LUXURY YELLOW ICEBERG	GOLDEN HERALD MECCA LUYONA GOLD LACE YELLOW IVANHOE	HARVEST GOLDEN CELESTRA
<b>BRONZE &amp; RED</b>	VALENTINE ILLINI WAR PAINT OLNURA	IND. BRONZE DARK IND. BRONZE THE TITAN DAYBREAK WOKING SCARLET	DOROTHY HYDE ZYLON IVANHOE SUNDOWN DUCHESS	AMBER BRIGHT
<b>PINK</b>	PIONEER VEDOVA VENOYA THANKS. PINK	IND. PINK VANGUARD SOUTHDOWN PINK PLUM LAUGHTER	THOMAS JOHNSON BUNBU MARY GARDEN MISS AMERICA	



## YEAR-ROUND FAST SCHEDULE

## FAST DISBUDS AND FAST SPRAYS

FLOWER	PLANT	PINCH	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
OCTOBER 31, 1960	JULY 18	AUG. 1	NO NO	AUG. 15 NO	11 WEEK 10 WEEK
NOVEMBER 7, 1960	JULY 18	AUG. 1	NO AUG. 1 - AUG. 29	AUG. 22 NO	11 WEEK 10 WEEK
NOVEMBER 14, 1960	JULY 25	AUG. 8	NO NO AUG. 1 - SEPT. 5	AUG. 22 NO NO	12 WEEK 11 WEEK 10 WEEK
NOVEMBER 21, 1960	AUG. 1	AUG. 15	NO AUG. 8 - SEPT. 5 AUG. 1 - SEPT. 12	NO NO NO	12 WEEK 11 WEEK 10 WEEK
NOVEMBER 28, 1960	AUG. 8	AUG. 22	AUG. 15 - SEPT. 5 AUG. 8 - SEPT. 12 AUG. 8 - SEPT. 19	NO NO NO	12 WEEK 11 WEEK 10 WEEK
DECEMBER 5, 1960	AUG. 8	AUG. 22	AUG. 15 - SEPT. 12 AUG. 8 - SEPT. 19 AUG. 8 - SEPT. 26	NO NO NO	12 WEEK 10 WEEK 11 WEEK
DECEMBER 12, 1960	AUG. 15	SEPT. 5	AUG. 15 - SEPT. 19 AUG. 15 - SEPT. 26 AUG. 15 - OCT. 3	NO NO NO	12 WEEK 11 WEEK 10 WEEK
DECEMBER 19, 1960	AUG. 15	SEPT. 5	AUG. 15 - SEPT. 26 AUG. 15 - OCT. 3 AUG. 15 - OCT. 10	NO NO NO	12 WEEK 11 WEEK 10 WEEK
DECEMBER 26, 1960	AUG. 22	SEPT. 12	AUG. 22 - OCT. 3 AUG. 22 - OCT. 10 AUG. 22 - OCT. 17	NO NO NO	12 WEEK 11 WEEK 10 WEEK

## VARIETIES IN RESPONSE GROUPS

	12 WEEK	11 WEEK	10 WEEK
WHITE	WHITE PETER JOHN CHAMP WHITE VALENCIA ILLINI GLACIER DECEMBER GLORY	WHITE NORMA MARKETEER ERMINE JOHN BAUMANN	IND. WHITE IMP. IND. WHITE IND. NO. 3 WHITE
YELLOW	YELLOW PETER JOHN YELLOW GLORY	SHANE SUSANNE MILLER YELLOW MARKETEER	IMP. IND. YELLOW IND. YELLOW NIGHTINGALE GORDON WELLS
BRONZE & RED	FOREVER AMBER BRONZE PETER JOHN APRICOT VALENCIA RED EMPRESS	VALENTINE ILLINI WAR PAINT OLNURA	IND. BRONZE DARK IND. BRONZE WOKING SCARLET
PINK	PINK PETER JOHN DK. PINK PETER JOHN EMPRESS	DARK NORMA VEDOVA VENOYA THANKS. PINK	IND. PINK SOUTHDOWN PINK PLUM LAUGHTER

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## BETTER CHRYSANTHEMUM CUTTINGS

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Success in a year round flowering program starts and depends upon planting cuttings which are predictable in growth response, form and color. All cuttings are produced from "Mother Blocks" which originate from single-plant selections that were indexed for productiveness, resistance to, and freedom of disease.

The origin of this single-plant selection is the result of years of customer and propagator participation. This joint participation constantly provides the energy for further improvements on known varieties and provides direction for the propagator in his breeding program.

Constant indexing of mother blocks and their progeny assure you of a desirable and reliable base from which to plan production.

### HANDLING CUTTINGS

All cuttings are packed in specially designed boxes that provide the best environment possible while in transit. All cuttings are rooted in a light medium designed to provide optimum aeration and moisture for the root system.

Cuttings are sufficiently rooted to plant directly into their final location. Some protection in the form of temporary shade or light syringing may be desirable for the first four to five days, but this should be discontinued as soon as plants are turgid and new root growth is observed. If at the end of 48 hours the plants are not turgid during the morning hours and new white growth is not visible then one of the following factors is restricting growth: Roots are not receiving sufficient oxygen, as a result of the soil being too tight or cuttings planted too deep; roots

are injured from fertilizer salts in soil as evidenced by browning or blackening of root tips; root system is not receiving sufficient water as a result of soil not being thoroughly watered prior to and after planting.

Since rooting and shipping tend to deplete the nitrogen in the cutting it is beneficial to water in the cuttings with a starter solution. Growers using a Fert-O-Ject may use the same solution as they use on older, established plants.

### DELIVERIES

With the advent of the time pinch and precision method culture, it is necessary to have cuttings arrive on a definite date. To assure proper delivery, advance notice should be given the propagator. We would appreciate it if you could let us know your requirements early enough so that our propagator can plan his growing of stock plants and cuttings even more systematically.

### DELAYS

With the reduced delivery schedule of the Railway Express Agency, there may be delays in delivering shipments. Chrysanthemum cuttings can be injured from cold as well as being too long in transit. If the cuttings are slightly wilted, they should be immersed in water for a short period and then planted. If the cuttings have been slightly frozen, place them in a cool room and thaw them out gradually. It is also possible to place them in a pail of cool water for a short period before planting. Of course, if stock is badly frozen, or if long delays have occurred so that the cuttings are heated, yellowed or rotted, a claim should be filed at once with the carrier. Air Freight and truck shipments have speeded up deliveries.

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## CULTURAL POINTERS

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### SOILS

The time taken and money spent in the cost of proper soil preparation should be considered the same as taking out an insurance policy on the success of your crop. Year-round growing has progressed to a degree of precision that will not permit the grower to have crop failures due to factors he can control.

Maintain an open, well-aerated soil that drains well in addition to having some moisture-retention capacity. Periodic additions of organic matter to greenhouse soils has become a necessary practice for maintaining these desired properties that are associated with good soil management.

In order to achieve uniformity in soil it is necessary to add uniformly responding material. Of the



## CULTURAL POINTERS

various sources of organic material available German peat has been the most reliable form of soil additive. This is the result of the availability of a uniform grade, the slow rate of breakdown and the high degree of moisture retention it promotes in the soil. Other forms of organic matter can be used just as successfully but usually they require more study and effort to achieve the same results.

Caution should be exercised in the use of peat in soils that are naturally high in moisture retention. In cases where natural high soil moisture results in improper aeration, an inorganic additive such as perlite will be more effective in improving soil aggregation.

Greater care in soil preparation permits rapid penetration of water and a uniform supply of fertilizer. If water remains on the surface of your soil for more than a few moments after watering, the soil is not of good, open structure.

During the winter period, chrysanthemum plants are much more sensitive to overwatering and high soluble salts than during spring, summer and fall. When sterilization is arranged to just precede the planting for the winter crops, the results are best.

### CHEMICAL STERILIZATION

Where steam is not available any of the following chemicals may be used to do a comparable job:

**Methyl Bromide:** Commonly called MC-2 is a combination of **Methyl Bromide** with 2% chloropicrin (tear gas) to act as a warning agent. It will give good control of nematodes, weed seeds and certain fungi. Methyl bromide is not an effective control for verticillium wilt.

**Larvacide-chloropicrin:** Commonly called tear gas, it is effective on fungi, nematodes, weed seeds and soil insects. Apply with a special applicator by plunging approximately 1½ to 3 cc. per square foot of area.

**Vapam:** A relatively new material that has been effective in the control of nematodes, soil fungi and weeds. Higher rates will give complete control while lower rates will control weeds.

**Mylone:** A new material that is applied in a pellet or liquid form and does not require rototilling. This material shows promise on outdoor crops.

Various combinations of the above materials are available such as **DOWFUME**, **PICFUME**, etc. All of these materials are toxic to man and growing plants, therefore, caution in their use is necessary. After applying these materials the soil must be covered for best results and a period of aeration prior to planting is a must to prevent injury or death of plants. Low soil temperature is many times the factor that prevents use of these materials.

Comparative cost between chemical and steam methods show no cost advantage of chemicals and if danger of material and delay in planting is considered, steam is usually more economical. An exception is in large field operations, where soil temperatures are normally above 60° F, and the area may be prepared well in advance of planting.

### SOIL MANAGEMENT AND STERILIZING PRACTICES

1. Apply and rototill all organic matter into soil prior to sterilizing to assure thorough wetting of material and the control of disease.

2. Make certain soil is loose and moist enough to permit steam or gas circulation, especially on ends and sides of bench.

3. Steam sterilize the soil so that the coolest point is at least 180 degrees F. for 30 minutes. Wherever possible sterilize before each crop. If one or two sterilizations a year are being practiced it is wise to space them into the cooler months of the year and receive the growth benefits of a warmed soil.

4. Experience has shown that planting immediately after the soil cools is safe and in most cases will give the best growth response. Delay in planting for one to two weeks can often result in an accumulation of salts. A liberal application of calcium sulfate (gypsum), 5 pounds per 100 square feet after steam sterilization will prevent injury to young roots. High phosphorous also reduces toxicity after sterilization.

5. When Rhizoctonia is a problem water the plants in, or within one day after planting with a solution of 1 to 1½ pounds of **TERRACLO** (75% wettable powder) per 1000 square feet. It should be noted that **TERRACLO** will not eradicate rhizoctonia but inhibits its ability to infect, therefore it is important to treat as early as possible. This treatment does not mean that the disease cannot re-enter at some later date. Many growers are treating only those varieties which are susceptible to rhizoctonia.

6. Apply sufficient water to new plants to set soil firmly around the base of the roots and establish proper water movement within the soil.

7. Maintain the following Spurway nutrient levels:

Nitrate Nitrogen	10-25 p.p.m.
Phosphorus	5-10 p.p.m.
Potassium	20-40 p.p.m.
Calcium	200-250 p.p.m.
pH	6.0-7.0
Solubridge reading (1:5 dilution)	40 or lower.

## STEAM STERILIZATION

The actual job of steam sterilization is relatively simple, but it is the small steps leading up to the job done that can complicate matters.

Two weeks prior to removing the old crop start to leach the bench. All soluble salts can generally be removed with two or three good heavy waterings. It is much easier to do this when the old crop is still in the bench as it pulls the moisture from the soil. If excess soluble salts are not leached before steaming, serious trouble can result because steaming often releases chemicals that were not available prior to steaming.

The bench should be properly rototilled and the desired amount of organic matter added along with the necessary fertilizers **before** steam sterilization. Amounts of the various chemicals to add are:

- |                           |                         |
|---------------------------|-------------------------|
| (1) Treble Superphosphate | 5 lbs. per 100 sq. ft.  |
| (2) Calcium Carbonate     | 10 lbs. per 100 sq. ft. |
| (Ground Limestone)        |                         |
| or Gypsum                 | 10 lbs. per 100 sq. ft. |

The bench should not be reworked after steaming because of the possibility of recontaminating the sterile soil.

The soil moisture level just prior to steaming is very important and is a point that is very sadly abused. Dry soil will not conduct heat efficiently and wet soil tends to condense excessive moisture. The soil should be in the same condition that is considered desirable in which to plant. This is called "friable" and means that after forming a soil ball in the hand that it can be crumbled with two fingers.

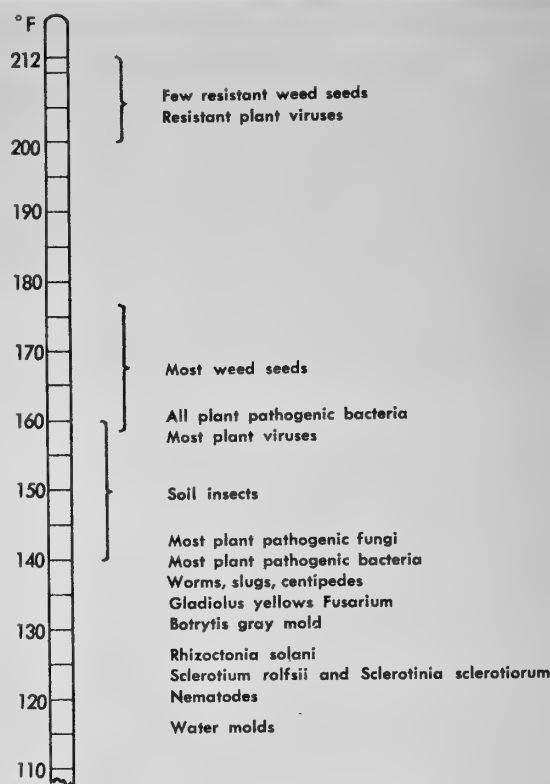
Moisture content of soil is important because of these reasons:

- (1) Heat combined with moisture does a better job of killing micro-organisms and weed seeds.
- (2) It takes less time to heat a moist bench than it does a dry bench. This is also the case with an exceedingly wet bed, where soggy benches almost take twice the time.

Large clods of soil should be broken so that the heat can penetrate to all areas uniformly.

Steam can be efficiently distributed to all sections of the bench simultaneously by the use of aluminum tubing 3" in diameter (with holes drilled in). Canvas hose with eyelets also works well. With both materials, two runs are recommended per 4-foot bench.

The soil should be held at the coolest spot to 180 degrees F. for 30 minutes, or when it first hits 200



Reprinted from California Agric. Exp. Sta. Bulletin No. 23. These various temperatures need to be maintained for 30 minutes to control the organisms listed. Concentrate on positive temperatures derived from using an accurate thermometer.

degrees F. Be sure to use an accurate soil thermometer every time and **do not guess**. The steam cover should be removed as soon as the desired temperature is reached so that the excess steam can escape into the atmosphere without condensing in the soil. As soon as the soil is cool enough to handle, it is time to start planting.

Steam, in forcing its way down through the soil, creates millions of tiny pores which will remain for the life of the crop if undisturbed. It is therefore strongly recommended that soil not be rototilled or worked over again prior to planting. This will not only save labor, but will greatly reduce any chance of recontamination.

When steam sterilizing, some growers use a plastic cover (not polyethylene) about 16 feet wide so that it can be extended to cover the aisles. This surface-steam the benches and bench supports. Instead of injecting steam into the end of the bench where there is danger of not reaching required temperature at the point of injection, it is suggested that the steam pipe be entered on the side about 8 to 10 feet from the end of the bench. A "T" is used whereby a 3/4-inch pipe directs the steam to the short end and the long end is equipped with a 2-inch pipe. By this means there is even distribution.



## CULTURAL POINTERS

### FERTILIZERS

#### Feeding

Chrysanthemums do much better right from the start if the soil is not too rich. Very often this crop will start off faster in new soil as compared to old soil that has been sterilized just because of the lower nutrient level in new soil. When using new soil, apply 5 pounds of superphosphate per 100 square feet of area, plus a liberal application of manure before planting. Phosphorus moves slowly within the soil mixture. It should always be added before the crop is benched so that it may be mixed thoroughly into the soil. Liquid feeding with water-soluble fertilizers is fast becoming the popular method of applying fertilizer. Water soluble fertilizers are available in many different analyses and therefore you can apply the fertilizer your soil requires. Many growers are feeding soluble fertilizers through their automatic watering systems. Remember to apply weaker solutions of fertilizer more frequently rather than heavy doses less frequently. When using complete fertilizers in dry form we usually figure on using two applications at 2 pounds per 100 square feet of area starting shortly after the plants have started to grow and ending when the buds are visible. **Remember that the plant is the best guide to fertilizer requirements and that more mums are ruined by overfeeding than by nutrient deficiencies.**

#### Levels of Nutrition

When using sterilized soil, the best recommendations to follow would be to analyze your soil from time to time. We have found that when the following Spurway nutrient levels are kept, good crops are the result. **Nitrate nitrogen should be 10-25 p.p.m.; phosphorus 5-10 p.p.m.; potassium 20-40 p.p.m. and calcium 200 to 250 p.p.m.** To increase the nitrate level, feed one pound of ammonium sulfate per 100 square feet of area, and to bring up the potassium, apply muriate of potash not to exceed 1 pound per 100 square feet. If phosphorus is needed, apply mono-calcium phosphate at the rate of 1 pound per 100 square feet.

In the cooler weather and shorter days of September, omit the nitrogen if the plants are growing freely. The mum assimilates more phosphorus and potassium during the time of bud initiation. Therefore, it is desirable to apply a complete fertilizer shortly after the buds are visible.

#### Soluble Salts

Soluble salts are chemical compounds consisting of an acid part (ion) and a basic part (ion). For example, common table salt, sodium chloride, consists

of one ion of chloride and one of sodium. Chloride is an acid-forming ion, and sodium a basic or alkali-forming ion. The two combine in chemically equivalent quantities to form a neutral salt. Other common acidic ions are sulfate, nitrate, bicarbonate and phosphate. Other common basic ions are calcium, magnesium, potassium and ammonium. Any basic ion may combine with any acidic ion giving rise to a great variety of salts.

All plant nutrients which are absorbed by plants from the soil or from culture solutions are absorbed in the form of salts or their constituent ions. All organic materials become "mineralized" through decay processes, and the nutrients in them are converted into salts before being absorbed by plants. Some salts contain plant nutrients and are beneficial in the small quantities required for plant growth. Others contain no nutrients. All salts are harmful beyond the small quantity required for plant growth. A little is bad, more is worse, up to the point where plants will be killed. Salts are found in most water and are applied as fertilizer. Improper watering may permit a concentration into the harmful range. Instruments called Wheatstone's bridges are available which measure total soluble salts in terms of electrical conductivity or conductance. Many laboratories of the Agricultural Extension Service are equipped with Solubridge instruments for use in assisting with soluble salt problems.

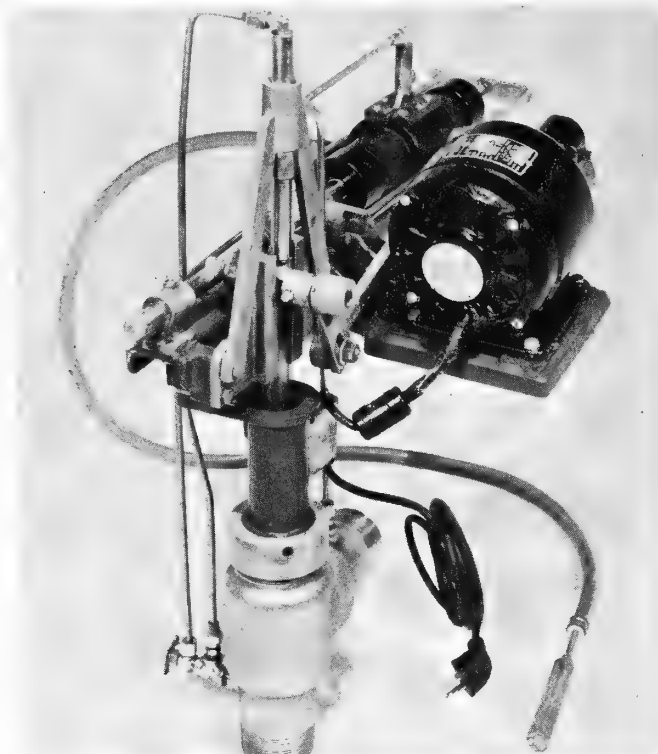
It has been found that **when planting rooted cuttings, the Solubridge readings should not be higher than 40**, while established plants do not withstand readings of 100 without showing some harmful effects. To remedy excess soluble salts, apply 2 to 3 gallons of water per square foot and leach out this high salt content.



GATES WATERING SYSTEM

## CULTURAL POINTERS

### FERTILITY CONTROL



**MODEL E (Above) . . . . . \$475.00**  
**MODEL E-500 . . . . . 535.00**

- CAPACITY
  - Standard Sleeve 5 to 120 g.p.m. (Ratio 200:1)
  - Low Flow Sleeve 2 to 60 g.p.m. (Ratio 100:1)
- Can be installed in water mains from 1¼ inch to 4 inch
- Permanent type installation—electric motor driven
- Fully automatic
- Recommended for ranges over 15,000 square feet.

Injection of small quantities of balanced fertilizer into existing water lines is now the most efficient way to produce top quality. This can be done most economically with FERT-O-JECT. Chrysanthemums, both pot plants and cut flowers, respond equally as well under this system. The theory behind this recommendation is that plants require fertilizer in direct proportion to the amount of water they consume. The more rapidly a plant is growing the greater the amount of water it receives and consequently the more fertilizer is applied. It is possible to feed diversified crops with the same fertilizer.

Kinds and rates of fertilizer used will vary with the region and type of soil, but the following can be used as a general guide where constant fertilization is practised.

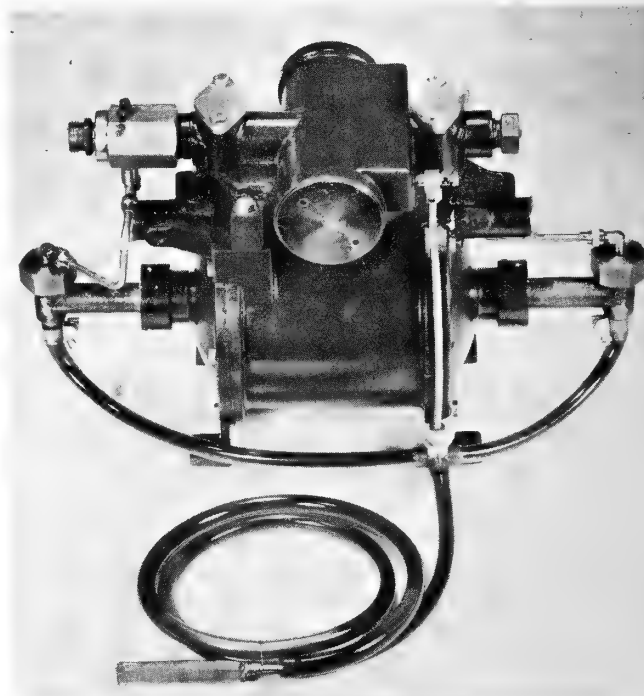
### KIND OF FERTILIZER

**RATE—POUNDS PER  
50 GALLONS (200:1)**

Peters 25-10-10 . . . . .	35 to 50 lbs.
Peters 20-20-20 . . . . .	50 lbs.
Peters 20-5-30 . . . . .	50 lbs.
Ammonium nitrate } . . . . .	{ 25 to 35 lbs.
Muriate of Potash } . . . . .	{ 15 lbs.

The advantages of fertilizing with a FERT-O-JECT are:

1. Eliminates the labor spent on hand fertilization.
2. Maintains more uniform nutrient levels with no burning or starvation.
3. Automatically applies proper quantity of fertilizer.
4. Inexperienced help can apply fertilizer with no fear of burning plants because of dry soil.
5. Applies fertilizer the way plants use it . . . a little bit all the time.



**MODEL U-400 . . . . . \$300.00**

- CAPACITY
  - Water pressure 20 lbs. . . . . 12 g.p.m.
  - 40 lbs. . . . . 17 g.p.m.
  - 60 lbs. . . . . 21 g.p.m.
  - 80 lbs. . . . . 24 g.p.m.
  - 100 lbs. . . . . 28 g.p.m.
  - 140 lbs. . . . . 32 g.p.m.
- Ratio—1:100
- Portable, but can be installed permanently into water main
- Fully automatic and self-lubricating.



## CULTURAL POINTERS

### PLANTING

#### PLANTING DATE

The proper planting date will vary according to the period of the year you desire to flower and the time permitted for growth of the plant prior to pinch.

Cuttings may be planted and allowed to flower without pinching. This is often used to improve quality. It also permits more crops a year from the same growing area.

#### PLANTING ROOTED CUTTINGS

When shipped all cuttings are active enough in growth and sufficiently rooted to permit planting directly into permanent locations. This method is recognized as being the most practical since it eliminates the check in growth commonly associated with transplanting. Never plant cuttings any deeper than they were in the propagating medium.

When planting from pots raise the soil ball  $\frac{1}{2}$  inch to  $\frac{3}{4}$  inch above the soil line in order to keep the top of the ball exposed and dry. Regardless of pre-planting chemical treatments, deep planting still invites infection by Rhizoctonia and Pythium. Pot up extra cuttings and plunge them in the bench as replacements for any losses occurring at a later date.

#### SINGLE-STEM OR NO-PINCH METHOD

Cuttings are planted and allowed to grow without pinching. It is an essential practice if the maximum number of crops a year are to be realized. Where crops are planted from September 15 to February 1, no-pinch method produces a superior crop, whereas a pinched crop can be weaker and of poorer quality.

#### LIGHT INTENSITY

Newly planted cuttings should have some protection in the form of a temporary shade and several light syringings for the first five to seven days. It is questionable whether it is necessary to shade cuttings in air cooled greenhouses. After plants are established, a minimum amount of shade should be

used,—never reduce natural sunlight over 36 percent for satisfactory growth. Further light reductions will necessitate an adjustment in spacing to produce a satisfactory crop. Research work has shown that chrysanthemum production is directly related to light intensity. In other words, the greater the light intensity, barring heat effects, the greater the production. This makes clean glass a must in the winter months.

For cloth houses, the amber Saran is superior to the green because of more light under the amber covering. Naturally the plants require more water when grown under higher light intensities.

Shade is recommended when flowers are about one-half open to prevent them from sun-burning. When growing standards, a good practice would be to stretch muslin directly over the open blooms. This not only prevents sunburning but also keeps the blooms free from dirt.

#### DISTANCE OF PLANTING

For good quality chrysanthemums, we prefer to plant 7 x 7 inches or 8 x 8 inches pinched once, and thin the shoots to 3 per plant. On vigorously growing varieties the outside rows will support one more stem than the center rows in the bed. Light intensity should be high at the base of the plant for quality blooms, and if planted too closely, we have lost the factor which promotes quality.

For a single stem, no-pinch method pompons should be spaced 4 x 6 inches and standards 5 x 6 inches. When further spacing is used the sprays become too large. Fast disbuds (mini-mums) should be spaced 4 x 6 inches in the summer flowering period and 6 x 6 inches in the winter.

#### PLANTING DISTANCE FOR NO-PINCH METHOD

Pompons	4 x 6 inches
Standards	5 x 6 inches
Fast Disbuds	4 x 6 inches (Summer)
Fast Disbuds	6 x 6 inches (Winter)



"HI-LITE" SPACING  
IS NEWEST PLANTING  
TECHNIQUE



TRADITIONAL SPACING  
WITH BAMBOO CROSS TIES

## CULTURAL POINTERS

## PINCHING

Pinching in modern day chrysanthemum culture serves three functions:

(1) To produce lateral stems which can be flowered thereby reducing plant cost and enhancing uniformity in the crop.

(2) To determine the type of spray formation developed on pompons and singles.

(3) To determine the type of bud formation (crown or terminal), subsequent type and fullness of the flower, and the amount of necking of flower stem on standards. Many factors affect the formation and development of buds on a chrysanthemum plant, one of which is the length of time a stem has grown. Experiments and field observations have shown that plants pinched too early produce early crown buds and the laterals developing as a result of this crown are usually long and uneven in flowering response. When plants are pinched too long after planting the lateral stem length is very short and the flower heads tend to be crowded together making an undesirable spray formation.

The schedules outlined in this book are designed to produce a crown bud which is surrounded by short branched laterals that are in proportion to the over-all stem length and will flower uniformly.

Regardless of the time period between plant and pinch all pinches must be made into the soft growth. Soft growth is most easily defined as growth that has occurred since planting that can easily be broken with a light twist of the thumb and fore-finger. Failure to pinch soft can often result in low shoot count and retarded development of shoots. The result is often an uneven crop with poor production. Pinching into hard wood often disturbs the root system of the



REMOVE TOP 1/2 INCH OF  
STEM WITH SHARP KNIFE



MAKE SURE ENTIRE STEM  
IS CUT WHEN PINCHING SOFT

plant because of the force required to cut the pinch from the plant. Improper pinching can easily reduce the production potential.

## PRUNING

If all the shoots that arise from a properly pinched plant were permitted to flower there would be little uniformity within the flowering stems, and many of the stems would not have satisfactory substance or strength to be of any value. In order to gain consistency in stems on pompons no more than 3 stems per plant should be permitted to develop on the inside rows of the bed and four stems per plant on the outside rows. If fewer stems per plant are desired the spacing may be decreased slightly but an average of 17 to 20 square inches per stem has been found most satisfactory.

Standards are usually grown two stems per plant with three on the outside rows. The most common error in pruning is waiting too long after pinching before selecting the correct number of stems. A decided check in growth results from delaying the pruning operation. Pruning late when shoots are hard and woody only serves to remove accumulated energy that could have been used to good advantage on the flowering stems. In addition, it usually leaves scar tissue which does not heal properly and may serve as a port of entry for disease organisms. The practice of stripping all leaves below the pinch level at the time of pruning is questionable. First, it removes potential food manufacturing organs, and secondly, it opens up avenues for disease entry. If leaf-stripping is practiced, then remove only those leaves that show signs of disease or yellowing at the time of pruning.

## CULTURAL POINTERS

### DISSPRAYING AND DISBUDDING

**Disspraying:** Vigorous growing, large-flowering varieties often produce side shoots below the main spray after bud set which should be removed to promote the best development and timing of the flowering shoot. These side shoots develop most heavily during the high light intensity periods of growing and in greater abundance on the outside rows of the bench. It has been found beneficial to remove these shoots on crops which are flowered under black cloth.

Removal of the center bud of the spray on many varieties of pompons will often assist in developing a more open spray. It also improves the keeping quality of the spray since the terminal flower is always older, more open, and deteriorates more rapidly than other flowers on the spray. Timing the removal of this center bud for maximum results is as important as the timing of the disbudding on standards. Certain varieties during good growing conditions will initiate more buds than can develop into acceptable flowers. Removing part of the buds will improve the spray, timing, and increase the flower size on the remaining buds. On most varieties thinning to 4 or 5 buds per spray will produce higher quality.

**Disbudding:** Varieties grown as standards or disbuds are grown so as to leave only one bud per stem. This is called "taking the bud". If you are growing according to the plant, pinch schedule given in the manual you will be able to take the first bud that appears. This is called a terminal bud.

**Terminal Buds:** Terminal buds can be identified by the following traits: (1) A small, hard, central bud surrounded by a tight cluster of smaller buds all appearing similar and on a plane slightly below the center bud. (2) Normal-shaped leaf development up to the point of budding. (3) Terminal buds appear only after continuous short-day treatment as indicated by either shading or lighting period.



READY FOR DISBUDDING

**Crown Buds:** Crown buds are characterized by the following: (1) A somewhat softer and usually larger bud, surrounded by vegetative shoots having only leaf buds. Vegetative shoots are on a plane above the central bud. (2) Leaf shape may appear abnormal next to the central bud, being usually narrower and somewhat strap-shaped. (3) Crown may appear on plants at any time but will occur most often on natural flowering crops from October to December.



TERMINAL BUD  
SURROUNDED BY SIDE BUDS

The fact that crown-budding can occur at any time is an important clue to its origin and the condition responsible for its occurrence. It requires fewer number of days of correct day length to set the bud than it does to develop the same bud, therefore a crown bud only appears when the period was correct for **setting** the bud, but the environment was not correct for **developing** the bud.

Some actual cases where this might occur are: (1) Black clothing is not done consistently; too many nights skipped or poor-quality black cloth permitting too much light to fall on plants. (2) Lighting interruption caused by clock failure, or light leaking from an outside source interrupting the dark period. (3) Artificial light intensity inadequate outside or slightly shaded rows not receiving proper light intensity. (4) Failure to follow schedule and the growth from the pinch prior to lights out or black cloth shading was over twenty-four inches in length. (This is more likely to occur during the more rapid growing seasons of the fall and spring.)

In natural flowering of standards the following rule will assist in determining what to do with crown bud formation.

VARIETIES THAT FLOWER	REMOVE CROWNS THAT APPEAR BEFORE
Oct. 3 to Nov. 15	Sept. 5
Nov. 5 to Nov. 30	Sept. 26
Dec. 1 to Dec. 15	Oct. 3

Make the selection as early as possible to prevent the dog-leg appearance of the stem that develops from late selection on hardened stems.

Final selection or disbudding timing is an important practice often overlooked. Selecting the bud too early, may cause injury if not done carefully. The most common error is late disbudding. This can appreciably reduce flower size, color intensity and could delay flowering by as many as 4 or 5 days.



## CULTURAL POINTERS

## PREMATURE BUDDING

Bud initiation can occur anytime during the spring months—whenever temperatures in the greenhouses are consistently 60 degrees F. or above, and the days are short enough to initiate buds. These conditions can occur anytime up until May 1 depending upon the variety and the locality in which they are grown. Some varieties, such as the garden varieties and 8 and 9-week varieties, require very little short-day treatment, coupled with high temperatures, to initiate buds. This same tendency to set bud readily is what makes these varieties desirable for early shading and garden work. In order to prevent this premature setting of buds, these same varieties should be placed where they can be given additional light during the early spring months. Use 60-watt bulbs spaced 4 feet apart and 24 inches above the plants. Three hours of light during the middle of the dark period will prevent budding completely if the minimum intensity is 8 foot-candles. The same treatment on either end of the night might not be so effective during cloudy periods which create a shorter day.

## BLINDNESS

Temperature is associated with blindness. When plants are grown below 50 to 55 degrees F. during the bud initiation period many varieties will produce blind growth. In "Year-Round Flowering" we have found that chrysanthemums should be grown in a 60-degree temperature to insure good bud development. Although there are some varieties which require a higher temperature, and there are other varieties that will initiate buds at a lower temperature, it is safe to recommend a 60-degree temperature in most cases.

In the case of a short-duration low temperature emergency the question always arises as to when does most damage occur? Experience with cloth house operations has shown that the most critical time in regard to loss of production is in plants that have been under a lights-out condition for three to four weeks. At this stage of growth failure to give



UNIT GAS HEATERS USED  
IN CALIFORNIA



A two bed unit enables one person to handle black cloth.  
Lighted units can also be shaded in a flowering house.

adequate protection can make the difference between critical injury to the bud resulting in complete blindness, and malformation of flowers or the development of nearly-perfect flowers. Stages of growth after this will be affected but not so often to the degree stated above. In conjunction with the above statement it should be noted that extreme fluctuations in night temperature above 65 degrees F. and below 54 degrees F. on winter crops after the bud is visible can cause serious delays and malformation of the bud. For best results, when finishing plants cool do not lower the temperature in more than 2-degree intervals over a 5 to 7-day period.

## SHADING (BLACK CLOTH)

From March 15 to Sept. 15 it is necessary to shorten day length with black sateen cloth. Light intensity under cloth should be no more than two foot-candles to prevent delayed and uneven flowering. Shade should be applied as late in the evening as possible to prevent under-cloth temperatures over 90 degrees F. Temperatures of 90 degrees F. and above will delay flowering as readily as failure to apply black cloth. Applying the cloth after 6 p.m. and removing it before 8 a.m. has proved to be the most satisfactory. Failure to cover the plants completely each night or neglecting to cover every night also may result in irregular and delayed flowering.

Where temperature build up has been a problem, it may be solved by the following: (1) After sunset,

## CULTURAL POINTERS

raise the end cloth long enough to leave trapped hot air out. Be sure to secure cloth again to obtain the required 12 hours of darkness. (2) Raise the supports for the black cloth to a height that will not permit the cloth to be within 10 inches of the flower heads. This will permit a more rapid exchange of air under the cloth. Cloth must be applied on pompons until all saleable flowers in the spray show some color and the largest flowers are partially open.

On standards and disbuds black cloth may be discontinued after all flowering buds have attained a size  $\frac{1}{2}$  to  $\frac{3}{4}$  inch in diameter.

### BLACK POLYETHYLENE FILM

To facilitate early outdoor planting, sterilize and cover the soil with black polyethylene in the fall. Direct planting with the film in place results in the added advantages of more uniform soil moisture, higher soil temperatures and reduction of weeds.

### SHIPPING FLOWERS

Packing of cut flowers should be carefully studied. The most common error is over-crowding in the shipping boxes.

Quite often flowers from over-packed boxes have poorer keeping quality. This reduction results from bruised and crushed flower petals. Buyers will often complain that they cannot use the flowers without holding them in water for an extended period to regain turgidity in the crushed flowers.

Not securely fastening the blooms in the box will cause bruising of the petals. Cleating or sewing the stems to the box is essential. Cushion the blooms by placing enough padded paper at the bottom of the corrugated box and between the layers of blooms. In order to give complete protection pompon bunches should be wrapped so that the paper extends 1 or 2 inches above the flower heads. Chrysanthemum "Saf-Pak" is very helpful in shipping standards to market. One dozen blooms are held securely in one "Saf-Pak" holder.

Long-distance shipments carry better if the cut flowers are packed dry. Reduction of the temperature is accomplished by precooling the packed cut flowers. Never ship wet flowers.

### BANTAM MUMS

One of the many results of intensive plant breeding has been the BANTAM MUM type. This versatile mum produces acceptable flowers on 18 to 24-inch stems in a minimum growing period.

#### REQUIREMENTS:

- 1). **Soil**—Must be open, porous, well-aerated and steam sterilized on every crop. There can be no slow take-off and consequently soil preparation cannot be overemphasized.
- 2). **Spacing**—Summer, spring and fall flowering, 6 x 7 inches; early and mid-winter, 6 x 8 inches.
- 3). **Culture**—Plant shallow, provide constant moisture fertilization (preferably by injection method). Maintain a 65 degree F. night temperature for 30 days then 60 degrees F. until cut.
- 4). **Pinching**—Short days are started immediately and a high, soft pinch is made 18 days after planting. The soft pinch is especially important as flower buds are already initiated in the upper leaf axils at pinching time.
- 5). **Other Advantages**—a) No support is required. b) Let all breaks develop and no pruning is needed. c) Disbud early like pot mums, allowing one terminal bud to develop. d) **Indianapolis varieties are an exception.** Do not let more than three or four flowers per plant develop as overcropping will reduce quality in this group.
- 6). **Marketing**—The entire plant is cut at the soil line. This permits selling a multi-branched plant or a disbudded spray on a single stem base.
- 7). Careful varietal selection is most important. All varieties should possess these characteristics:
  - a). Free-breaking habit with great vigor and ability to stretch under short-day conditions.
  - b). Quick response at a night temperature of 60 degrees F. or lower.
  - c). Above average shipping and keeping qualities.

### SHADING—PETAL BURN

When blooming chrysanthemums during high temperatures and high light intensity, it is advisable to cover the beds with a cheese-cloth stretched about 18 inches above the top of the developing blooms. This covering will also help keep dirt off the open blooms. Sunburn sometimes is confused with flower ray blight, which is caused by Botrytis. Botrytis is more abundant during periods of high humidity and low temperatures.

Adequate moisture at the roots will help prevent petal burn during the hot summer days.

## CULTURAL POINTERS

### SUPPORTS

With high labor costs, it has become necessary to eliminate some of the labor in supporting standards and disbuds. The old way of supporting with stakes or stringing each plant has given way to the welded box-wire or cross-string method of support. Turn-buckles placed near the ends of the beds will keep the wires much tighter. Most growers are only using one layer of wire and cross strings and are gradually raising it as the crop grows.

Pompons are usually supported by the string and wire method similar to that described above.

Production losses because of failure to support the plant sufficiently or soon enough are not uncommon. Growth that is not vertical is often thin, weak and produces small leaves as a result of the excessive shade it receives. This type of growth even when supported properly will not produce satisfactory flowers. In cloth-house culture it is very important to



POT PLANTS GROWN ON BARE BOARDS

maintain the wire supports as close to the flower head as possible at all times to prevent breaking of the flower stem under the weight of moisture accumulation and wind pressure.

## INSECTS AND THEIR CONTROL

### APHIDS, OR PLANT LICE

All aphids are true sucking insects that insert their beaks through the surface of the leaf or stem and extract the juices from within.

**Injury.** The feeding of aphids causes the plants to become sickly and stunted. The leaves curl inward, and when the flower terminal is infested, the blooms will be deformed. Certain varieties of chrysanthemums are more susceptible to attack than others.

**Control.** **Nicofume Fumigation** is an easy method of controlling the black aphid but will do very little to control the green or straw-colored aphids. **Lindane** or **Parathion** is much more effective on the very resistant green or straw-colored aphids. **Vaportone** is also effective when used at higher concentrations. **Thiodan** and **Malathion** will also control aphid and spider mite.

### CHRYSANTHEMUM LEAF MINER

The larva or maggot disfigures and weakens chrysanthemum plants by mining in the leaves. It may do considerable harm to the crop, but is easily held in check.

**Injury.** The young maggots burrow in the leaf tissue, leaving the upper and lower surfaces intact. The

tunnels are irregular and winding. White blotches are thus formed, which later turn brown, and the leaves may die.

**Control.** As soon as it is noticed that any leaves are infested, they should be picked off. **Parathion** or **TEPP** aerosol bombs or sprays containing **Lindane**, **Chlordane** or **Parathion**, are very effective.

### CHRYSANTHEMUM MIDGE

The chrysanthemum midge is one of the most serious pests with which the grower has to deal. Under optimum conditions, a little over a month is required to complete the life cycle from the egg to the adult. The eggs are reddish-orange in color and are usually deposited on the tender tips of the growth. Under favorable conditions, the eggs hatch in about three days. The larva wanders about over the surface of the leaf for a day or two before finally penetrating into the leaf.

**Injury.** The midge attacks all parts of the plant but prefers the tender growth. If the infestation takes place when the plants are small, they fail to grow, although if the plants are well-developed when the infestation starts, the buds blight or are deformed, and the plant is rendered unsalable.



## INSECTS AND THEIR CONTROL

**Control.** **Lindane** is effective against young and adults.

**Parathion** aerosols effective, but require frequent applications.

**DDT** effective against adults—repeated applications necessary.

### CORN EAR WORM

The corn ear worm is a green to brown, nearly smooth caterpillar often mistaken for a cutworm when found within the buds or on the open flowers.

**Injury.** It is very destructive to the opening buds, for it feeds on their petals and other parts, deforming if not entirely ruining the flowers.

**Control.** If the attacked plants are blooming, spraying is out of the question, but thorough treatment with a 3 or 5% **D.D.T.** dust is recommended. After they have worked their way into the buds and are found to be feeding on the open flowers, hand-picking is the only remedy. Spraying the plants with **Deenate 50W** will control them before the color shows. **Parathion** fumigation will also keep them under control.

### CUTWORMS

The larva is dull colored and from one to more than 2 inches in length. They are most active at night, and usually spend the day coiled up just under the surface of the soil at the base of the plant. They should not be confused with the corn ear worm, which cannot be controlled by poison baits.

**Injury.** Cut worms obtain their food by biting out sections of the leaf, stem or bud. Various species attack different parts of the plant. The one that is most damaging climbs to the top of the stem and eats into the flower buds.

**Control.** Those cutworms that feed on the foliage can best be controlled with **Deenate 50W** spray using 1½ pounds to 100 gallons of water. **Parathion** has been suggested as a good control measure and is more effective as a spray.

### GREENHOUSE LEAF TYER

It gets its name from its habit of spinning light webs inclosing 2 or more leaves or tying together the parts of a single leaf. This caterpillar is very active, and when disturbed, will wriggle off the leaf, often backwards, lowering itself on a silk-like strand.

**Injury.** When first hatched, the larvae eat out shallow holes on the under side of the leaf. As they grow, they enlarge these holes but usually do not cut through to the upper surface. The result is that the leaves become skeletonized.

**Control.** The best poison to control the larvae is **Deenate 50W**, either in the form of a dust or a spray. For liquid spray use 1½ pounds of **Deenate 50W** to 100 gallons of water. Regular fumigations with **Parathion** will keep the leaf tyer under control. **Malathion** is also effective.

### MEALY BUGS

Mealy bugs are small, sluggish, whitish, soft bodied insects, measuring up to one-quarter inch long, found in clusters on the undersides of the leaves or in the leaf axils.

**Injury.** This pest sucks the juices from the stems and leaves, discoloring and deforming the foliage.

**Control.** **Parathion** or **Dithio** are the most effective. Repeated applications necessary.

### MITES

Cyclamen mite and broad mite are often found on the same plants at the same time. Broad mite could pass through a complete generation in 4 to 5 days at 70 to 80 degrees, while the cyclamen mite will take 4 to 5 times longer.

**Injury.** Infested leaves become deformed, curl from the outside inward, and wrinkle so that pockets and pit-like depressions are formed. When the infestation is severe, the mites collect about the buds causing them to blight. Oftentimes white varieties will show occasional red petals.

**Control.** Endrin at 1-400 with DuPont Spreader Sticker 1-2000 gave excellent control. **Kelthane** also is effective. **Systox** used as a soft drench has been found effective in mite control. **Thiodan** is effective.

### RED SPIDERS

There are several species of red spiders that attack the chrysanthemum. They vary in color through yellow, orange and red. The body is oval in outline and bears 8 well-developed legs.

**Injury.** Red spiders pierce the epidermis of the leaf and draw the liquid contents from the cells, causing the leaf to turn pale around the injured portion. They prefer to collect on the under surfaces of the leaves, which they cover with silken threads.

**Control.** **Aramite**, **Chlorobenzilate**, **Tedion**, **Kelthane**, **Parathion** or **Malathion** spray or **Aramite**, **Chlorobenzilate**, **Dithio**, **Parathion** or **Malathion** bomb.

## INSECTS AND THEIR CONTROL

**P40** at 3 pounds per 100 sq. ft. after plants are well established; especially desirable for cloth house operators, will also control foliar nematodes. **Plantfume 103** smoke generators and **Fulex Parathion Fumigators** are simple to use and very effective. **Dithio** is much safer than other insecticides when used on open flowers. Alternating the insecticides will very often give better control.

## SYMPHYLIDS

Symphylids are small white creatures about one-eighth to three-sixteenth inches long. About 40-60 days are necessary for the completion of the life cycle.

**Injury.** Symphylids destroy the fine root hairs and small rootlets, thus stunting the plants and often killing them outright.

**Control.** Complete control can be obtained with **Lindane** applied to the soil. **Lindane** can be applied to the surface of the soil either as a dust or as a wettable powder in a convenient amount of water. Application can be made when plants are in the bed, but best results are obtained if the insecticide is worked into the soil prior to planting. Use **Lindane 25W** at the rate of 8 ounces per 1000 ft. or 1% **Lindane** dust at the rate of 10 pounds per 1000 sq. ft.

## SOWBUGS

Sowbugs often become so plentiful in the greenhouse that they eat the newly-planted cuttings at the base.

Any of the many poison baits will give partial control but a complete spraying with **Deenate 50W** under the benches has given excellent control.

## TARNISHED PLANT BUGS

The tarnished plant bug or sting fly comes into the greenhouse through open doors and ventilators in late

summer or early fall and does considerable harm to this crop. Chrysanthemums growing in the open are frequently affected. Varieties such as *Mary L. Hall* and *Sea Gull* are attacked to a greater extent than other varieties.

**Injury.** It has sucking mouth parts and obtains its food by inserting its long, slender beak into the plant tissues and sucking up the contents of the injured cells, apparently injecting saliva, which causes the death of the tissue in the immediate vicinity. The stem is often slightly bent, and the terminal growth is malformed because of this injection.

**Control.** Early morning spraying or dusting with any of the pyrethrum materials will kill those bugs that are present but this will have to be done each day for complete eradication. **Dieldrin** and **Malathion** have been giving fair control, but again these insecticides are best used as a contact. **Parathion** fumigation will control this insect in the greenhouse.

## TERMITES

Termites are not ants, though often called white ants. The food of termites is wood or cellulose. Soil inhabiting forms are the most common in the greenhouse.

**Injury.** Termites sometimes injure chrysanthemum plants by working up the center of the plant and hollowing out the stem. This injury will eventually kill the plant.

**Control.** Clean up all wood debris in soil. Replace old wooden benches. Keep wooden bench supports from direct contact with the ground.

## THRIPS

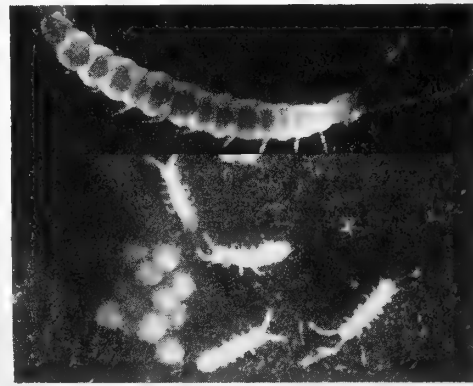
The chrysanthemum is usually attacked by one or more species of thrips. These small, narrow-bodied, active insects which range in color from yellow to brown or almost black, injure both the leaves and the blossoms. Thrips are a real threat to Florida mum growers.



MITE INJURY



RED SPIDER INJURY

SYMPHYLID. ABOVE, ADULT —  
BELOW, EGGS AND YOUNG

## INSECTS AND THEIR CONTROL

Thrips have mouth parts that are fitted for piercing and scraping the leaf surface and for sucking the juices and other cell contents. The upper surface of the foliage is covered with whitish blotches, while minute black specks appear on the lower surface. Unless a constant watch is kept on the plants and control measures are properly executed, thrips are capable of causing severe injury within a short time.

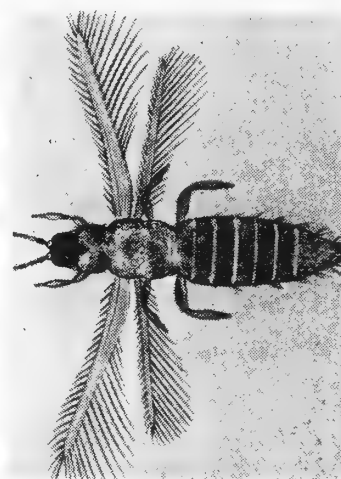
**Deenate 50W** used at the rate of 1 pound to 100 gallons of water is a very effective control. Other insecticides containing **Lindane** are also recommended. **Parathion** will control the chrysanthemum and onion thrips. Regular dustings or spraying are necessary where infestation is heavy. **Dieldrin** is also very effective.



TARNISHED PLANT BUG



THRIP INJURY



ADULT ONION THRIP

## PESTS AND THEIR CONTROL

### FOLIAR NEMATODE

The spread of this pest has been very rapid in recent years owing to the increased trade in chrysanthemums and the ease with which the nematode is transported in plants and cuttings. Too few growers have become familiar with this pest, and consequently no effort has been put forth to control it.

The leaves attacked become blotched, turn at first greenish-yellow, then brownish, later gray and finally black until the entire leaf dies and hangs down on the stem. Under conditions of high

humidity both in the open during a wet season and under glass due to excessive watering, the spread of the pest may be extremely rapid.

**Control.** **P40** applied at the rate of 3 pounds per 100 square feet has given good control. Wait 2 to 4 weeks after benching before applying. It is better to apply **P40** in 2 applications, 1½ pounds each time, 7 to 10 days apart. The latest findings show that foliar nematodes can be controlled with **Parathion** either as an aerosol or liquid spray. **Systox** emulsion applied as soil drench 2-4 weeks after planting is effective.

## DISEASES AND THEIR CONTROL

### MILDEW

**Symptoms.** Whitish powdery growth on upper surface of leaves.

**Control.** Spray at regular weekly intervals with a good **wettable Sulfur**, 1½ pounds per 100 gallons of water to which a good commercial spreader has

been added. Spray with **Mildex** 4 ounces per 100 gallons of water plus spreader whenever disease appears.

### BACTERIAL WILT OR STEM ROT

**Symptoms.** Plants in all stages of growth may exhibit symptoms. In newly-planted cuttings it first appears



## DISEASES AND THEIR CONTROL

as early wilting. Examination of cuttings will show the stems to be filled with a soft jelly-like, often red-colored mass. Stems may crack open in later stages and as the soft jelly dries it leaves the stems hollow. Breakdown of the infected plants may start at the location of a pinch and work down and out into breaks from pinch. Complete loss of the plants is not uncommon. In most cases, plants will wilt at some stage of the disease's progress causing the growth to be retarded, but it is possible for wilting to occur as late as flower opening.

**Control.** Remove and burn immediately all affected plants. Avoid pinching wet plants to prevent spread of the bacteria. Since it is a disease that attacks soft tissue during rapid growing periods of the year avoid excess use of ammonium fertilizers. Avoid dipping cuttings. Exercise care in variety selection for this period whenever possible.

### BASAL STEM ROTS

**Symptoms.** One of the disease is accounting for a high loss of plants and production during the high humidity, high temperature periods of growing. One of two fungi are involved:

(1) **RHIZOCTONIA:** May be distinguished by the following:

(A) The decay originates near the soil surface rather than in the root system;

(B) The diseased area has a brown coloration from the branches of the organism;

(C) Strands of mycelium can be seen with a hand lens;

(D) Where plants are crowded such as in a propagating bed or container the fungus can form a strong, brown-colored web over the plants, and

(E) The expression of the disease is often rapid and may rot mature plants upward from an infection at soil line.

(2) **PYTHIUM:** May be characterized by the following symptoms:

(A) Rotting may start at the root tips;

(B) Does not produce a characteristic color; roots will be brown and black depending on the various stages of decomposition. Rapid blackening of stem on actively growing plants is not uncommon;

(C) May destroy the root system slowly causing a slow retardation in growth; and

(D) In almost all cases the root system has stood in water for some time.

Field observations often reveal both **Pythium** and **Rhizoctonia** attacking the plant at the same time. Spread of the organisms is through transfer of plants, tools and soils. Next to poor soil aeration and inadequate drainage, high salt concentrations are known to increase the severity of expression. The

most severe symptoms of the disease are usually found on the beds having an uneven soil surface permitting surface water pockets. In ground beds of a cloth house the greatest incidence will be found in that part of the bed where surface runoff flooding was permitted. In both cases the excess of water seals the soil and provides conditions favorable for both diseases.

**Physical Control.** Supply better than just adequate drainage for all beds. Time taken in soil and bed preparation is money spent on insurance towards the success of your crop. In cloth houses slightly raised beds aid in preventing flooding and provide additional insurance for proper aeration where you have no control over soil moisture. Remember, these diseases can be transferred from diseased areas to new areas on any type of equipment or tools.

**Chemical Prevention.** Broadcast **TERRACOLOR** (75% wettable powder) at 2 pounds per 1000 square feet before planting and mix thoroughly into the top 2 inches of soil. This may also be used as a soil drench prior to, or at time of planting. Use **Terracolor** at the rate of 2½ pounds per 300 gallons of water and apply to 1000 square feet of bed area. It should be recognized that this treatment is not a control for plants expressing symptoms but a preventative treatment.

### FLOWER ROTS

#### (1) RAY BLIGHT

**Symptoms.** Caused by a fungus, **Ascochyta chrysanthemi**, which may attack any part of the chrysanthemum plant during its normal growing cycle. The name RAY BLIGHT is derived from the fact that noticeable expression is most often on the ray florets of a developing flower.

(A) Petals on one side of the flower turn dark brown or black from their base outward and tend to stick together.

(B) Rot may progress down the flower stem.

(C) Blossom falls apart.

(D) The leaves and unopened buds also may be attacked, producing a mushy, black-brown spotting and rotting under continued moist and moderate temperature conditions. The rot may extend from the leaves into the stem causing a brown to black lesion which may eventually girdle the stem and cause death at the top of the plant. In severe cases rot will weaken the stems sufficiently to permit flopping over of the flower heads.

(E) The infected leaf tissue may resemble *Septoria* leaf spot but it is usually distinguished by the lack of circular spot pattern common to *Septoria* and the presence of yellowing of tissue next to an infection of *Ascochyta*.

## DISEASES AND THEIR CONTROL

The fungus can withstand extremes of temperature and moisture and can lie dormant for prolonged periods and yet be destructive when reactivated.

**Control.** When the crop is finished, thoroughly clean the growing area and destroy all chrysanthemum tissue collected. Once the fungus infects the flowers no applications of fungicidal sprays can stop the disease therefore it is essential that a regular prevention program be followed. Lower the humidity as much as practical and spray on a regular schedule until buds show. At bud appearance alternate spraying the flower from below and above using **PARZATE** and **ORTHOCIDE 50W** at one ounce per 4 gallons of water plus one-third teaspoonful of **DuPont spreader-sticker**. This should be repeated at no less than 5-day intervals. In cloth houses rains should always be followed with sprays regardless of frequency. However, if frequency is occurring closer than 5-day intervals reduce the quantity of spray material and the spreader sticker to  $\frac{1}{2}$  the regular rate. During periods of excessively high humidity additions of **MANZATE**  $\frac{1}{2}$  lb. per 100 gallons of water also has been effective. There is some evidence to show that **CAPTAIN (ORTHOCIDE 50W)** will produce fading of open flowers more readily than **Parzate**. Fading of flowers also has been reported by growers when excessive use of stickers and spreaders has been permitted.

### (2) BOTRYTIS

**Symptoms.** The organism may attack any part of a chrysanthemum plant during its normal growing cycle and frequently cause the greatest losses on mature flowers in transit. Expression of the disease varies considerably from *Ascochyta*.

(A) It does not attack the flower bud from the inside and is usually found on a more mature or fully-opened flower.

(B) Foliage infections are characteristically soft brown and upon drying do not have any distinguishing features.

(C) Botrytis is found most often on the foliage shaded in the center of the bench.

(D) Mature infections will produce visible threads of mycelium that upon drying are white in color.

(E) The organism most readily attacks injured tissue such as that burned from excess of fertilizer and sunburn.

**Control.** Reduce the quantity of free water that stands on flowers and foliage as much as possible. Do not ship moist flowers.

Spray regularly with **PARZATE** and **ORTHOCIDE 50W** at same rate and frequency used for *Ascochyta* control. **CM19** may also be used as a foliar spray. **CM19** has been successfully used as a Botrytis eradicator when applied frequently to Botrytis susceptible, lower foliage of the plants at the rate of one pint per 100 gallons of water.

### ROOT KNOT NEMATODE

**Symptoms.** Nematodes or eelworms bore into the roots of the plants and cause knots or galls to develop on the root systems. As a result the plants are weak, yellowish and stunted in growth.

**Control.** Steam sterilization of the soil is the most effective. **MC2, VAPAM, VC13, D-D, EDB** and **NEMAGON** are chemical soil sterilizing materials that have given good control of root knot nematodes.

### RUST

**Symptoms.** Chocolate brown powdery pustules on lower surface of the leaves.

**Control.** **PARZATE**, one ounce to 4 gallons of water is most effective.

### SCLEROTINA

**Symptoms.** The organism is easily recognized by the dense, white wet-appearing, cottony mass-like growth in which are found hard black seed like sclerotia. Under field conditions air-borne spores develop and subsequent infection makes it more difficult to control. Expression of the disease is rarely seen on greenhouse chrysanthemums and then only when poor regulation of temperature and humidity prevail.

Under cool, moist, often prolonged foggy periods in the field it will attack mature, healthy plants and cause death of plants through wilting.

**Control.** Ventilate properly. Remove the infected plant material and burn. Spray lower foliage with **TER-RACOLOR** at the rate of  $1\frac{1}{2}$  to 2 pounds to 100 gallons of water. Be careful to clean up and burn all crop residue. Hard sclerotia are able to re-infect plants years after the initial infection.

### SEPTORIA LEAF SPOT OR LEAF BLIGHT

**Symptoms.** Distinct circular spots on the foliage. These are grayish-brown in color and become brittle in the center. Affected leaves may turn yellow and die. The disease is more prevalent in the open. Some varieties are more susceptible than others. The variety, Sea Gull is very susceptible.

**Control.** When cuttings are received, dunk the tops into **FERMATE** (2 tablespoons to a gallon). Spray the plants with **PARZATE** at the rate of one ounce to 4 gallons of water plus one-third teaspoonful of **DuPont spreader-sticker** every 10 to 14 days. Cloth house mums should be kept covered until the buds can be seen.

## DISEASES AND THEIR CONTROL

### VERTICILLIUM WILT OR SEIDEWITZ DISEASE

**Symptoms.** Margins of leaves turn yellow and eventually wilt or dry up. This begins at base of plant and works up the stem. May affect one side of a stem or plant more than the other. No distinct spots. Varieties vary in resistance to this disease.

**Control.** Verticillium wilt can be avoided by purchasing our disease-free cuttings produced from cultured stock. It is also necessary to plant only into sterilized soil.

### VIRUSES

The word "virus" is being referred to by the medical profession as well as by the florists, and a short explanation of virus should prove of interest.

Viruses of the chrysanthemum are considered to be infectious; that is they can be transmitted to a healthy plant only by contact with an infected plant. They are not carried in the soil, water or air as are other diseases caused by fungi and bacteria.

The virus particles cannot be seen by the most powerful microscopes. Most of them will pass through bacterial filters. They respond like living organisms. They are always present in the sap of diseased plants

and can be transmitted to a healthy plant through wounds or by mechanical means. The chrysanthemum is known to be affected with 5 viruses, namely yellows, Aspermy, rosette, mosaic and stunt. Stunt is the only one that has caused much concern. It has been found that aphids as well as mechanical handling will cause stunt to spread.

Once a plant is infected with a virus, it usually always remains affected. To define a virus, the following is as good as any: A virus is a protein which requires the presence of living cells for multiplication and it causes changes in the structure and functions of living cells.

### COMBINATION SPRAYS

At times it is more economical and convenient to mix two or more sprays and apply them in one operation. Before such mixtures are prepared, the grower should be sure no reaction harmful to the plants will occur, and that the efficiency of the separate ingredients is not reduced. Consult your State Entomologist or Plant Pathologist for information on combination sprays for specific crops.

A good combination spray for chrysanthemums which will control most diseases and insect pests, can be made with Lindane, Parzate, DDT and Vapatone. Details on dilutions are as follows:

MATERIAL	AMOUNT TO MAKE		
	100 GALLONS	20 GALLONS	3 GALLONS
WATER			
DuPont Spreader-Sticker	6 oz.	2 tablesp.	1 teasp.
Lindane	1 lb.	3 ounces	1½ tablesp.
Parzate	1½ lbs.	5 ounces	2 tablesp.
Deenate 50W	2 lbs.	6 ounces	3 tablesp.
*Vapatone	½ pt.	3½ tablesp.	1½ teasp.

\*Parathion, Aramite or Endrin may be used in place of Vapatone in this combination spray.

To prepare: (1) Measure out spreader and dilute in small quantity of water. (2) Fill tank with required water and add the diluted spreader and stir. (3) Take out a small amount in jar, add the proper amount of Parzate and shake vigorously until all the powder is thoroughly wetted. (4) Pour this mixture back into the tank, preferably through a fine screen or cheesecloth and stir. (5) Measure out Vapatone and dilute in small amount of water and add to the tank. Keep stirring or keep agitator running while adding the materials.

### MATERIAL AND AMOUNT (per 100 gallons of water for spraying)

- 2 pounds 15% **Aramite** wettable powder
- 1 pound **Captan** wettable powder
- 1 pound **Chlordane 50%** wettable powder
- 1 pound 25% **Chlorobenzilate** wettable powder
- 1 pint **CM19**—Emulsifiable solution
- 2 pounds 25% **Diazanone** wettable powder
- 2 pounds 50% **DDT** wettable powder
- 1 pound **Dieldrin 25%** wettable powder
- 1 pint 25% **Dimite** emulsifiable solution
- 1 quart **Endrin** emulsifiable solution
- 1½ pounds **Fermate** wettable powder
- 1 pound 25% **Lindane** wettable powder
- 1½ pints 50% **Malathion** emulsifiable solution
- 2 pounds 25% **Malathion** wettable powder
- 1½ pounds 15% **Parathion** wettable powder
- 1½ pounds **Parzate** wettable powder
- ¼ pint 40% **TEPP** emulsifiable solution
- ½ pint 20% **TEPP** emulsifiable solution
- 1 to 1½ pounds 25% **Kelthane** wettable powder
- 1 pint 25% **Kelthane** emulsifiable solution
- ½ pint **Systox** emulsifiable solution
- 1 pound **Tedion 25%** wettable powder
- 1 pound **Terraclor 75%** wettable powder



## YEAR-ROUND FLOWERING OF CHRYSANTHEMUMS

For the past thirteen years we have seen cut chrysanthemums on the markets every month of the year. To assure high quality cut flowers the plants must be grown under optimum conditions. By optimum conditions we refer particularly to the basic conditions of a good soil, the disease-free condition of the plant material, the absence of any checks in growth from stock plant to the mature flowering plant, adequate means of temperature control for all stages of growth and the selection of the right varieties out of each group for the respective flowering periods. It is with this in mind that we prepare this Manual.

### Response Group

Prior to year-round flowering of chrysanthemums, we

referred to varieties as to their natural flowering date. Now that year-round flowering is in general use, we refer to a variety as to its response to short-day treatment. When we say 9 week-response, we mean that it will bloom 9 weeks after the short-day treatment is started. A 13-week group requires 13 weeks after short-day treatment is started, and so on with all the other response groups.

### Daylength Control

When chrysanthemums are grown around the year, it is very necessary that we know when to apply shade or light to make the plants respond as we desire. The following schedule will give you the proper dates for lighting and shading for each response group.

YEAR-ROUND LIGHTING AND SHADING SCHEDULE				
RESPONSE GROUP	SHADING TO STOP IN FALL	LIGHTING TO START IN FALL	SHADING TO START IN SPRING	LIGHTING TO STOP IN SPRING
7 WEEK	AUG. 22	JULY 11	APR. 11	MAY 30
8 WEEK	AUG. 29	JULY 18	APR. 4	MAY 23
9 WEEK	SEPT. 5	JULY 25	MAR. 28	MAY 16
10 WEEK	SEPT. 12	AUG. 1	MAR. 21	MAY 9
11 WEEK	SEPT. 19	AUG. 8	MAR. 14	MAY 2
12 WEEK	SEPT. 26	AUG. 15	MAR. 7	APR. 25
13 WEEK	OCT. 3	AUG. 22	FEB. 29	APR. 18
14 WEEK	OCT. 10	AUG. 29	FEB. 22	APR. 11

### Lighting

The chrysanthemum is generally referred to as a short day plant but it is rightfully a long night plant. It requires a long night period of at least twelve hours or more to bud and flower properly. When we want to prevent bud initiation we should reduce the night period to at least seven hours. This is done by lighting the plants three to four hours each night, starting at 10 p.m.

To prevent the initiation of flower buds, the light intensity must not be lower than 7 foot-candles. When growing seven or eight week varieties this minimum should be 9 foot-candles.

Usually we figure that it requires 1¼ watts per sq. ft. of area covered; that includes benches and walks. When lighting a single bench 42 inches to 48 inches

wide use 60-watt lamps in a reflector, spaced 4 feet apart, 2 to 3 feet above the tops of the plants. For two benches 42 to 48 inches wide use 100-watt lamps in a reflector, spaced 6 feet apart, 2 to 3 feet above the tops of the plants.

Lights must be used according to the schedule above. It has been found that best results are secured by interrupting the night. Begin lighting at 10 p.m. for the number of hours shown below:

### Additional Lighting Schedule

- 3 Hours during the months of August, September, October, March, April and May.
- 4 Hours during the months of November, December, January and February.

## YEAR-ROUND FLOWERING OF CHRYSANTHEMUMS

### Shading

Use a good durable **Black Cloth** which when applied will reduce the light intensity to 2 foot-candles or less. More light intensity than this will result in delayed flowering and unevenness of bloom.

The cloth should be applied at 5 p.m. and removed at 8 a.m. When the temperature is above 90 degrees at 5 p.m. delay the application of the cloth until 6 or 7 p.m. This will reduce the heat under the cloth and yet produce twelve hours or more of night necessary for proper development. Continue covering each evening on pompons until the latest buds show color and most of the flowers are well developed. For large flowering varieties, shading can be discontinued after all flowering buds have attained the diameter of approximately one-half inch.

Be sure that covering is complete on all benches shaded, as any leaks in light will cause uneven spots in the bench at blooming time.

Black cloth should be applied each evening. Missing one night a week will give fair results, but delayed flowering results when cloth is not applied each evening.

### Temperature Control

For inter-connected units or crops at different stages of development the most efficient and effective temperature recommendations we can make are **cool 60° crops**. The house temperature is run at a straight 60° level night and day, cloudy or sunny. This is the lowest, safest minimum. It is the night temperature that counts. Eliminating fluctuation promotes steady, gradual growth. Keeping day temperatures down encourages more ventilation with corresponding reduction in relative humidity. This promotes stronger, heavier stems. On very bright days temperatures will

frequently go higher but this should be due to radiant heat from the sun rather than convective greenhouse heat.

Excessive high temperatures prohibit the bud development, and during seasons of 90 degree night temperatures, it is suggested that the black cloth be raised after twilight and lowered again in the morning before daylight. This cooler temperature hastens the development of the buds. Air conditioning greenhouses has made it possible to grow chrysanthemums in locations where natural high temperatures prohibited the development of this crop.

### Selection and Varieties

The careful selection of varieties in year-round flowering is very important. An intimate knowledge of varieties will eliminate the pitfalls associated with this crop. Knowing how to select varieties on the basis of response groups is equally as important as selecting varieties that will respond out of season.

In latitudes where seasons, temperatures and light conditions are variable, it is to any grower's advantage that he grow only those varieties that will provide the highest yields and best quality for each period of the year.

The South is of course more fortunate in that light duration there and intensity fluctuates less than is experienced in the North, and even though only three or four response groups are used during a 52-week period, the need for meticulous varietal planning is just as important as it is for any one period in the North.

Your **Gloeckner** representative is well equipped to furnish you the details and the proper varieties for each particular flowering date. His intimate knowledge will eliminate the guess work associated with mum programming.



WELL GROWN YEAR-ROUND CROPS—NOTE LIGHTS AND BLACK CLOTH

## YEAR-ROUND FLOWERING OF CHRYSANTHEMUMS

### INTERRUPTED LIGHTING FOR WINTER STANDARDS

When flowering December thru March crops of the standard varieties Indianapolis, Queen's and Mefo's the use of interrupted lighting has been tested and is recommended as a means of increasing petallage. This materially improves the appearance of the flower reducing the effect of decreased petallage and quilling known to be associated with abrupt shade during the short days of the **winter period**.

The essential requirements are:

1. Units planted to only the above mentioned varieties. The procedure has not been thoroughly tested on spray varieties or other standard varieties.
2. Accurate control of temperature. A 60° minimum night at all positions within the unit plus correspondingly higher day temperatures. Cloudy days were run at the 60° minimum. Bright days were between 65°-70°.
3. A rigid adherence to scheduled timing recommendations with interruption.
4. No extreme temperature reduction at or near the finish of the crop. Low temperature is known to be partly responsible for an increase of quilling in the Indianapolis varieties. A minimum of 55° is satisfactory only after buds show some color.

5. The method recommended is as follows:

For any given crop to be flowered during the **December through March** period determine from the schedule the date lights are stopped. Count back twelve (12) days and on this date start and maintain nine (9) continuous short days of no lights. At the end of this nine (9) short day period run twelve (12) continuous days of lights on. Then turn lights out and maintain normal short days.

Thus the total number of long days as called for by the schedule remains the same. This second long day period immediately following the first short day period of nine (9) days serves to slow down the early bud development stage resulting in a petallage increase of approximately 50%.

To illustrate: For flowering Indianapolis White (10 week) for December 12 the schedule calls for October 3 lights out. Counting back twelve (12) days gives September 20. Therefore run short days from September 20 to and including September 29 (9 continuous short days). Starting September 30, run twelve (12) long days to and including October 11. On October 12 start the final and continuous short day period. This is the nine (9) short day—twelve (12) long day formula for interrupted lighting.



WELL GROWN HOUSE OF INDIANAPOLIS  
FOR JANUARY BLOOM



SUPPORTING STANDARDS WITH WIRES AND  
CROSS STRINGS



## YEAR-ROUND FLOWERING OF CHRYSANTHEMUM



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STANDARDS IN SARAN HOUSE PROTECTED WITH  
POLYETHYLENE AFTER COLOR DEVELOPED



THE MAP ABOVE WILL ASSIST  
YOU IN LOCATING THE LATI-  
TITUDE IN WHICH YOUR GREEN-  
HOUSE IS LOCATED. YOU NEED  
THIS INFORMATION TO USE THE  
FLOWERING SCHEDULES THAT  
FOLLOW ON THE NEXT PAGES.

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

### BLOOM — MAY 16, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	JAN. 4	FEB. 1	JAN. 4 - MAR. 7 JAN. 4 - MAR. 14 JAN. 4 - MAR. 21	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
35-40°	JAN. 11	FEB. 8	JAN. 11 - MAR. 7 JAN. 11 - MAR. 14 JAN. 11 - MAR. 21	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
25-35°	JAN. 25	FEB. 15	JAN. 25 - MAR. 7 JAN. 25 - MAR. 14 JAN. 25 - MAR. 21	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
<b>BLOOM — MAY 23, 1960</b>					
40-50°	JAN. 18	FEB. 15	JAN. 18 - MAR. 14 JAN. 18 - MAR. 21 JAN. 18 - MAR. 28	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
25-40°	FEB. 1	FEB. 22	FEB. 1 - MAR. 14 FEB. 1 - MAR. 21 FEB. 1 - MAR. 28	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		10 WEEK	9 WEEK	8 WEEK
WHITE	S	IMP. IND. WHITE CRYSTAL QUEEN FRED SHOESMITH	QUEEN'S LACE WH. MARY GARDEN DONLOPE'S WH. SP.	WH. PINK CHIEF SILVER SHEEN
	P	PING PONG WHITETOP ICEBERG PACESETTER ILLINI IGLOO SHASTA VISCOUNT DAWN STAR STARDUST ILLINI SNOWDRIFT	SILVERTONE WHITE KEEPSAKE PINOCCHIO MEMENTO HALO ALASKA THISTLEDOWN	ECHO BLIZZARD PRISTINE
YELLOW	S	IMP. IND. YELLOW YELLOW QUEEN EXPLORER YELLOW SHOESMITH	LUYONA GOLD LACE GOLDEN BOY	BLAZING GOLD BUTTERBALL
	P	YELLOWTOP AZTEC GOLDEN BANTAM YEL. BEAUREGARD YEL. ICEBERG SUNFIRE GOLDEN SHASTA YELLOW IGLOO HEYDAY YEL. ILL. SNOWDRIFT FANFARE	STARLIGHT GOLDEN HERALD GOLD COAST HAPPINESS SUNUP SAUTERNE FLAIR DANDY STATESMAN BRILLIANCY YELLOWCHIP HONEYMOON	YELLOW CALUMET TOPFLIGHT
BRONZE & RED	S	DK. IND. BRONZE NOMAGO COPPER QUEEN	MRS. PALMERO BRONZE PALMERO FRED YULE	MAYFORD TITAN
	P	BRONZE DELIGHT BEAUREGARD CLIMAX GILTGLow AMBERHUE	RESOLUTE GAIETY SYBIL PEACHCHIP TANFASTIC	CALUMET DARK CALUMET RED ENTERPRISE PARADISE
PINK	S	IND. PINK DK. ORCHID QUEEN	BUNBU MARY GARDEN	
	P	DELIGHT PORTRAIT BONNIE PENNANT CHEERFUL	PINKETTE REWARD BLUECHIP TEMPO	PINK CHIEF ENTERPRISE ACCOLADE MIRTH

S—Standard

P—Pompon

POT PLANT SCHEDULE

VARIETY SCHEDULE

# YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

## BLOOM — MAY 30, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	FEB. 1	FEB. 29	FEB. 1 - MAR. 21 FEB. 1 - MAR. 28 FEB. 1 - APR. 4	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
25-40°	FEB. 8	FEB. 29	FEB. 8 - MAR. 21 FEB. 8 - MAR. 28 FEB. 8 - APR. 4	MAR. 21 MAR. 28 APR. 4	10 WEEK 9 WEEK 8 WEEK
<b>BLOOM — JUNE 6, 1960</b>					
25-50°	FEB. 15	MAR. 7	FEB. 15 - MAR. 28 FEB. 15 - APR. 4 FEB. 15 - APR. 11	MAR. 28 APR. 4 APR. 11	10 WEEK 9 WEEK 8 WEEK
<b>BLOOM — JUNE 13, 1960</b>					
25-50°	FEB. 22	MAR. 14	FEB. 22 - APR. 4 FEB. 22 - APR. 11 FEB. 22 - APR. 18	APR. 4 APR. 11 APR. 18	10 WEEK 9 WEEK 8 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

		10 WEEK	9 WEEK	8 WEEK
WHITE	S	IMP. IND. WHITE CRYSTAL QUEEN THE FAVOURITE	QUEEN'S LACE MARBLEHEAD DONLOPE'S WH. SP.	WH. PINK CHIEF SILVER SHEEN
	P	PING PONG SUPERTOP ICEBERG WHITE PENNANT ILLINI IGLOO VISCOUNT DAWN STAR STARDUST ILLINI SNOWDRIFT	SILVERTONE WHITE POPCORN PINOCCHIO MEMENTO HALO ALASKA THISTLEDOWN	ECHO BLIZZARD PRISTINE
YELLOW	S	IMP. IND. YELLOW YELLOW QUEEN EXPLORER	YEL. MARBLEHEAD LUYONA GOLD LACE GOLDEN BOY	BLAZING GOLD BUTTERBALL
	P	YELLOWTOP AZTEC GOLDEN BANTAM YEL. BEAUREGARD YEL. ICEBERG SUNFIRE GOLDEN SHASTA YELLOW IGLOO HEYDAY YEL. ILL. SNOWDRIFT FANFARE	YELLOW KEEPSAKE STARLIGHT GOLDEN HEARLD GOLD COAST HAPPINESS SUNUP SAUTERNE FLAIR DANDY STATESMAN BRILLIANCY YELLOWCHIP	YELLOW CALUMET TOPFLIGHT
BRONZE & RED	S	DK. IND. BRONZE NOMAGO COPPER QUEEN	MRS. PALMERO BRONZE PALMERO FRED YULE	MAYFORD TITAN
	P	BRONZE DELIGHT BEAUREGARD WIZARD CLIMAX GILTGLOW	RESOLUTE GAITY SYBIL PEACHCHIP TANFASTIC	CALUMET DARK CALUMET RED ENTERPRISE PARADISE
PINK	S	IND. PINK DK. ORCHID QUEEN	BUNBU MISS AMERICA	
	P	DELIGHT PORTRAIT BONNIE PENNANT CHEERFUL	PINKETTE REWARD BLUECHIP TEMPO	ENTERPRISE ACCOLADE MIRTH

S—Standard

P—Pompon



## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

### BLOOM — JUNE 20, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
25-50°	FEB. 29	MAR. 21	FEB. 29 - APR. 11 FEB. 29 - APR. 18 FEB. 29 - APR. 25	APR. 11 APR. 18 APR. 25	10 WEEK 9 WEEK 8 WEEK

### BLOOM — JUNE 27, 1960

25-50°	MAR. 7	MAR. 28	MAR. 7 - APR. 18 MAR. 7 - APR. 25 MAR. 7 - MAY 2	APR. 18 APR. 25 MAY 2	10 WEEK 9 WEEK 8 WEEK
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### BLOOM — JULY 4, 1960

25-50°	MAR. 14	APR. 4	MAR. 14 - APR. 25 MAR. 14 - MAY 2 MAR. 14 - MAY 9	APR. 25 MAY 2 MAY 9	10 WEEK 9 WEEK 8 WEEK
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\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		10 WEEK	9 WEEK	8 WEEK
WHITE	S	GIANT BETSY ROSS WHIRLWIND THE FAVOURITE	MARBLEHEAD DONLOPE'S WH. SP. QUEEN'S LACE THEMESONG	WH. PINK CHIEF SILVER SHEEN
	P	PING PONG SUPERTOP ICEBERG MADONNA WHITE PENNANT DAWN STAR ILLINI IGLOO VISCOUNT SHASTA STARDUST ILLINI SNOWDRIFT	SILVERTONE POPCORN WHITE POPCORN KEEPSAKE PINOCCHIO VESTA MEMENTO HALO ALASKA THISTLEDOWN	ECHO BLIZZARD PRISTINE
YELLOW	S	YELLOW BETSY ROSS GOLDEN FAVOURITE EXPLORER	YEL. MARBLEHEAD LUYONA GOOD NEWS GOLDEN BOY	BLAZING GOLD BUTTERBALL
	P	YELLOWTOP CRESCENDO YEL. BEAUREGARD GOLDEN BANTAM YEL. ICEBERG LUXURY GOLDEN SHASTA YELLOW IGLOO YEL. ILL SNOWDRIFT	YELLOW KEEPSAKE GOLDEN HERALD HAPPINESS SUNUP SAUTERNE FLAIR DANDY STATESMAN BRILLIANCE YELLOWCHIP HONEYMOON	YELLOW CALUMET TOPFLIGHT
BRONZE & RED	S		FRED YULE	
	P	BEAUREGARD WIZARD	RESOLUTE PAXON TANFASTIC	CALUMET DARK CALUMET
PINK	S	VANGUARD LAUGHTER	BUNBU MISS AMERICA	
	P	PROFILE PENNANT	PINKETTE REWARD BLUECHIP	MIRTH

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

### BLOOM — JULY 11, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
25-50°	MAR. 21	APR. 11	MAR. 21 - MAY 2 MAR. 21 - MAY 9 MAR. 21 - MAY 16	MAY 2 MAY 9 MAY 16	10 WEEK 9 WEEK 8 WEEK

### BLOOM — JULY 18, 1960

25-50°	MAR. 28	APR. 18	MAR. 28 - MAY 2 MAR. 28 - MAY 9 MAR. 28 - MAY 16	MAY 9 MAY 16 MAY 23	10 WEEK 9 WEEK 8 WEEK
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### BLOOM — JULY 25, 1960

25-50°	APR. 4	APR. 25	APR. 4 - MAY 2 APR. 4 - MAY 9 APR. 4 - MAY 16	MAY 16 MAY 23 MAY 30	10 WEEK 9 WEEK 8 WEEK
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\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		10 WEEK	9 WEEK	8 WEEK
WHITE	S	GIANT BETSY ROSS WHIRLWIND THE FAVOURITE	MARBLEHEAD DONLOPE'S WH. SP. QUEEN'S LACE THEMESONG	WH. PINK CHIEF SILVER SHEEN
	P	PING PONG SUPERTOP ICEBERG MADONNA WHITE PENNANT DAWN STAR ILLINI IGLOO VISCOUNT SHASTA STARDUST ILLINI SNOWDRIFT	SILVERTONE POPCORN WHITE POPCORN KEEPSAKE PINOCCHIO VESTA MEMENTO HALO ALASKA THISTLEDOWN	ECHO BLIZZARD PRISTINE
YELLOW	S	YELLOW BETSY ROSS GOLDEN FAVOURITE	YEL. MARBLEHEAD LUYONA GOOD NEWS GOLDEN BOY	BLAZING GOLD BUTTERBALL
	P	YELLOWTOP CRESCENDO YEL. BEAUREGARD GOLDEN BANTAM YEL. ICEBERG LUXURY GOLDEN SHASTA YELLOW IGLOO YEL. ILL. SNOWDRIFT	YELLOW KEEPSAKE GOLDEN HERALD HAPPINESS SUNUP SAUTERNE FLAIR DANDY STATESMAN BRILLIANCY YELLOWCHIP HONEYMOON	YELLOW CALUMET TOPFLIGHT
BRONZE & RED	S		FRED YULE	
	P	BEAUREGARD WIZARD	RESOLUTE PAXON TANFASTIC	CALUMET DARK CALUMET
PINK	S	VANGUARD LAUGHTER	BUNBU MISS AMERICA	
	P	PROFILE PENNANT	PINKETTE REWARD BLUECHIP	MIRTH

S—Standard

P—Pompon

# YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

## BLOOM — AUGUST 1, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
25-50°	APR. 11	MAY 2	APR. 11 - MAY 2 APR. 11 - MAY 9 APR. 11 - MAY 16	MAY 23 MAY 30 JUNE 6	10 WEEK 9 WEEK 8 WEEK

## BLOOM — AUGUST 8, 1960

25-50°	APR. 18	MAY 9	APR. 18 - MAY 2 APR. 18 - MAY 9 APR. 18 - MAY 16	MAY 30 JUNE 6 JUNE 13	10 WEEK 9 WEEK 8 WEEK
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## BLOOM — AUGUST 15, 1960

25-50°	APR. 25	MAY 16	APR. 25 - MAY 2 APR. 25 - MAY 9 APR. 25 - MAY 16	JUNE 6 JUNE 13 JUNE 20	10 WEEK 9 WEEK 8 WEEK
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\*For No Pinch Method: Plant Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

		10 WEEK	9 WEEK	8 WEEK
WHITE	S	GIANT BETSY ROSS WHIRLWIND THE FAVOURITE	MARBLEHEAD DONLOPE'S WH. SP. QUEEN'S LACE THEMESONG	WH. PINK CHIEF SILVER SHEEN
	P	PING PONG SUPERTOP ICEBERG MADONNA WHITE PENNANT DAWN STAR ILLINI IGLOO VISCOUNT SHASTA STARDUST ILLINI SNOWDRIFT	SILVERTONE POPCORN WHITE POPCORN KEEPSAKE PINOCCHIO SONGSTER VESTA MEMENTO ALASKA THISTLEDOWN HALO	ECHO BLIZZARD PRISTINE
YELLOW	S	YELLOW BETSY ROSS GOLDEN FAVOURITE	YEL. MARBLEHEAD LUYONA GOOD NEWS GOLDEN BOY	BLAZING GOLD BUTTERBALL
	P	YELLOWTOP CRESCENDO GOLDEN BANTAM YEL. BEAUREGARD YELLOW ICEBERG SUNFIRE LUXURY GOLDEN SHASTA YELLOW IGLOO YEL. ILL. SNOWDRIFT	YELLOW KEEPSAKE GOLDEN HERALD HAPPINESS SUNUP SAUTERNE FLAIR DANDY STATESMAN BRILLIANCE YELLOWCHIP HONEYMOON	TOPFLIGHT
BRONZE & RED	S		FRED YULE	
	P	BEAUREGARD WIZARD	RESOLUTE BUCKSKIN TANFASTIC	
PINK	S	VANGUARD LAUGHTER	BUNBU MISS AMERICA	
	P	PROFILE PENNANT	PINKETTE REWARD BLUECHIP TEMPO	MIRTH

S—Standard

P—Pompon



## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

### BLOOM — AUGUST 22, 1960

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
25-50°	MAY 2	MAY 23	JUNE 13 JUNE 20 JUNE 27	10 WEEK 9 WEEK 8 WEEK
<b>BLOOM — AUGUST 29, 1960</b>				
25-50°	MAY 9	MAY 30	JUNE 20 JUNE 27 JULY 4	10 WEEK 9 WEEK 8 WEEK
<b>BLOOM — SEPTEMBER 5, 1960</b>				
25-50°	MAY 16	JUNE 6	JUNE 27 JULY 4 JULY 11	10 WEEK 9 WEEK 8 WEEK

\*For No Pinch Method: Plant on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		10 WEEK	9 WEEK	8 WEEK
WHITE	S	GIANT BETSY ROSS WHIRLWIND THE FAVOURITE	MARBLEHEAD DONLOPE'S WH. SP. QUEEN'S LACE THEMESONG	WH. PINK CHIEF SILVER SHEEN
	P	PING PONG SUPERTOP ICEBERG MADONNA WHITE PENNANT DAWN STAR ILLINI IGLOO VISCOUNT SHASTA STARDUST ILLINI SNOWDRIFT	SILVERTONE POPCORN WHITE POPCORN KEEPSAKE PINOCCHIO SONGSTER VESTA MEMENTO ALASKA THISTLEDOWN HALO	ECHO BLIZZARD PRISTINE
YELLOW	S	YELLOW BETSY ROSS GOLDEN FAVOURITE	YEL. MARBLEHEAD LUYONA GOOD NEWS GOLDEN BOY	BLAZING GOLD BUTTERBALL
	P	YELLOWTOP CRESCENDO GOLDEN BANTAM YEL. BEAUREGARD YELLOW ICEBERG SUNFIRE LUXURY GOLDEN SHASTA YELLOW IGLOO YEL. ILL. SNOWDRIFT	YELLOW KEEPSAKE GOLDEN HERALD HAPPINESS SUNUP SAUTERNE FLAIR DANDY STATESMAN BRILLIANCY YELLOWCHIP HONEYMOON	TOPFLIGHT
BRONZE & RED	S		FRED YULE	
	P	BEAUREGARD WIZARD	RESOLUTE BUCKSKIN TANFASTIC	
PINK	S	VANGUARD LAUGHTER	BUNBU MISS AMERICA	
	P	PROFILE PENNANT	PINKETTE REWARD BLUECHIP TEMPO	MIRTH

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

### BLOOM — SEPTEMBER 12, 1960

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
25-50°	MAY 23	JUNE 13	JULY 4 JULY 11 JULY 18	10 WEEK 9 WEEK 8 WEEK

### BLOOM — SEPTEMBER 19, 1960

25-50°	MAY 30	JUNE 20	JULY 4 JULY 11 JULY 18	11 WEEK 10 WEEK 9 WEEK
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### BLOOM — SEPTEMBER 26, 1960

25-50°	MAY 30	JUNE 20	JULY 11 JULY 18 JULY 25	11 WEEK 10 WEEK 9 WEEK
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\* For No Pinch Method: Plant on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	11 WEEK	10 WEEK	9 WEEK	8 WEEK
WHITE	S	IMP. IND. WHITE IND. NO. 3 WHITE GIANT BETSY ROSS CRYSTAL QUEEN	QUEEN'S LACE DONLOPE'S WH. SP. ALBATROSS THEMESONG	WH. PINK CHIEF SILVER SHEEN
	P	WHITE TAFFETA SCULPTURE JUPITER Highbrow PARAMOUNT	PING PONG SUPERTOP ICEBERG MADONNA ENCORE WHITE PENNANT DAWN STAR ILLINI IGLOO SHASTA STARDUST VISCOUNT ILLINI SNOWDRIFT	SILVERTONE POPCORN WHITE POPCORN WHITE KEEPSAKE PINOCCHIO SONGSTER VESTA MEMENTO ALASKA THISTLEDOWN
YELLOW	S	IMP. IND. YELLOW EXPLORER YELLOW MARVEL YELLOW QUEEN	LUYONA MECCA GOLD LACE GOOD NEWS GOLDEN BOY	BLAZING GOLD BUTTERBALL
	P	ETUDE SOUVENIR YELLOW TAFFETA YEL. SCULPTURE GOLDEN CHORD ESQUIRE FORTY NINER GOLD BALL SHANE YELLOW Highbrow LOLLIPOP PIPPIN KLONDIKE ILLINI SUNSPOT GOLDEN PARAMOUNT	GOLDTOP AZTEC CRESCENDO GOLDEN BANTAM YEL. BEAUREGARD GOLDBERG LUXURY GOLDEN SHASTA JEALOUSY HEYDAY YELLOW IGLOO YEL. PACESETTER YEL. ILL. SNOWDRIFT FANFARE SUNFIRE	YELLOW KEEPSAKE STARLIGHT GOLDEN HERALD GOLD COAST HAPPINESS SUNUP SAUTERNE FLAIR YELLOW HALO DANDY STATESMAN SUNRAY YELLOWCHIP BRILLIANCE HONEYMOON
BRONZE & RED	S	MRS. EISENHOWER BEACON	IND. BRONZE NOMAGO COPPER QUEEN MRS. ROY	MRS. PALMERO BRONZE PALMERO DETROIT NEWS FRED YULE
	P	BEAUREGARD SUPR. THELMA RANGER OLNURA BRONZE MINUET RUBAIYAT CARDINAL	JETFIRE BR. DELIGHT BEAUREGARD SAMOVAR RUBICON WIZARD CLIMAX GILTGLOW	GAIETY PAXON BRONZE DOT BUCKSKIN SYBIL PEACHCHIP RED DAISY TANFASTIC
PINK	S		IND. PINK VANGUARD DK. ORCHID QUEEN LAUGHTER	BUNBU MARY GARDEN MISS AMERICA
	P	TAFFETA JUBILATION ILLINI SPRINGTIME ALMEGA MINUET BLUE SKIES ILLINI FORMAL	PARISIENNE DELIGHT PORTRAIT BONNIE PENNANT HUMDINGER CHEERFUL	PINKETTE ROSE GAIETY REWARD PINK DOT BLUECHIP DARKCHIP HANDSOME TEMPO
				PINK CHIEF  ACCOLADE MIRTH

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

### BLOOM — OCTOBER 3, 1960

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
40-50°	JUNE 6	JUNE 27	JULY 18 JULY 25 AUG. 1	11 WEEK 10 WEEK 9 WEEK
25-40°	JUNE 13	JULY 4	JULY 18 JULY 25 AUG. 1	11 WEEK 10 WEEK 9 WEEK
<b>BLOOM — OCTOBER 10, 1960</b>				
40-50°	JUNE 13	JULY 4	JULY 25 AUG. 1 AUG. 8	11 WEEK 10 WEEK 9 WEEK
25-40°	JUNE 20	JULY 11	JULY 25 AUG. 1 AUG. 8	11 WEEK 10 WEEK 9 WEEK

\* For No Pinch Method: Plant on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		11 WEEK	10 WEEK	9 WEEK	8 WEEK
WHITE	S		IMP. IND. WHITE IND. NO. 3 WHITE GIANT BETSY ROSS CRYSTAL QUEEN	QUEEN'S LACE DONLOPE'S WH. SP. ALBATROSS THEMESONG	WH. PINK CHIEF SILVER SHEEN
	P	WHITE TAFFETA SCULPTURE JUPITER Highbrow PARAMOUNT	PING PONG SUPERTOP ICEBERG MADONNA ENCORE WHITE PENNANT DAWN STAR ILLINI IGLOO SHASTA STARDUST VISCOUNT ILLINI SNOWDRIFT	SILVERTONE POPCORN WHITE POPCORN WHITE KEEPSAKE PINOCCHIO SONGSTER VESTA MEMENTO ALASKA THISTLEDOWN	ECHO BLIZZARD PRISTINE
YELLOW	S		IMP. IND. YELLOW EXPLORER YELLOW MARVEL YELLOW QUEEN	LUYONA MECCA GOLD LACE GOOD NEWS GOLDEN BOY	BLAZING GOLD BUTTERBALL
	P	ETUDE SOUVENIR YELLOW TAFFETA YEL. SCULPTURE GOLDEN CHORD ESQUIRE FORTY NINER GOLD BALL SHANE YELLOW Highbrow LOLLIPOP PIPPIN KLONDIKE ILLINI SUNSPOT GOLDEN PARAMOUNT	GOLDTOP AZTEC CRESCENDO GOLDEN BANTAM YEL. BEAUREGARD GOLDBERG LUXURY GOLDEN SHASTA JEALOUSY HEYDAY YELLOW IGLOO YEL. PACESETTER YEL. ILL. SNOWDRIFT FANFARE SUNFIRE	YELLOW KEEPSAKE STARLIGHT GOLDEN HERALD GOLD COAST HAPPINESS SUNUP SAUTERNE FLAIR YELLOW HALO DANDY STATESMAN SUNRAY YELLOWCHIP BRILLIANCY HONEYMOON	
BRONZE & RED	S	MRS. EISENHOWER BEACON	IND. BRONZE NOMAGO COPPER QUEEN MRS. ROY	MRS. PALMERO BRONZE PALMERO DETROIT NEWS FRED YULE	
	P	BEAUREGARD SUPR. THELMA RANGER OLNURA BRONZE MINUET RUBAIYAT CARDINAL	JETFIRE BR. DELIGHT BEAUREGARD SAMOVAR RUBICON WIZARD CLIMAX GILTGLow TUNEFUL BRONZE	GAITY PAXON BRONZE DOT BUCKSKIN SYBIL PEACHCHIP RED DAISY TANFASTIC	
PINK	S		IND. PINK VANGUARD DK. ORCHID QUEEN LAUGHTER	BUNBU MARY GARDEN MISS AMERICA	PINK CHIEF
	P	TAFFETA JUBILIATION ILLINI SPRINGTIME ALMEGA MINUET BLUE SKIES ILLINI FORMAL	PARISIENNE DELIGHT PORTRAIT BONNIE PENNANT HUMDINGER CHEERFUL	PINKETTE ROSE GAITY REWARD PINK DOT BLUECHIP DARKCHIP HANDSOME TEMPO	ACCOLADE MIRTH

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

### BLOOM — OCTOBER 17, 1960

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
40-50°	JUNE 13	JULY 4	AUG. 1 AUG. 8 AUG. 15	11 WEEK 10 WEEK 9 WEEK
25-40°	JUNE 27	JULY 18	AUG. 1 AUG. 8 AUG. 15	11 WEEK 10 WEEK 9 WEEK

### BLOOM — OCTOBER 24, 1960

40-50°	JUNE 20	JULY 11	AUG. 8 AUG. 15 NO	11 WEEK 10 WEEK 9 WEEK
25-40°	JULY 4	JULY 25	AUG. 8 AUG. 15 NO	11 WEEK 10 WEEK 9 WEEK

\* For No Pinch Method: Plant on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		11 WEEK	10 WEEK	9 WEEK
WHITE	S		IMP. IND. WHITE IND. NO. 3 WHITE GIANT BETSY ROSS MEFO FRED SHOESMITH	SILVER QUEEN THEMESONG ALBATROSS QUEEN'S LACE DONOLOPE'S WHITE SPIDER
	P	WHITE TAFFETA SCULPTURE ERMINE JUPITER HIGHBROW PARAMOUNT BELRAY	PING PONG SUPERTOP ILLINI IGLOO WHITE PENNANT DAWN STAR SHASTA STARDUST VISCOUNT ILLINI SNOWDRIFT	WHITE POPCORN WHITE KEEPSAKE PINOCCHIO VESTA MEMENTO ALASKA THISTLEDOWN HALO
YELLOW	S	HARVESTER	IMP. IND. YELLOW EXPLORER YELLOW MARVEL YELLOW QUEEN CREAM MEFO	LUYONA MECCA GOLD LACE GOOD NEWS GOLDEN BOY
	P	SOUVENIR YELLOW TAFFETA YELLOW SCULPTURE GOLDEN CHORD ESQUIRE FORTY NINER GOLD BALL SHANE ETUDE YELLOW HIGHBROW LOLLIPOP KLONDIKE ILLINI SUNSPOT SULTAN GOLDEN PARAMOUNT	GOLDTOP AZTEC GOLDEN BANTAM YELLOW BEAUREGARD GOLOBERG SUNFIRE LUXURY GOLDEN SHASTA JEALOUSY HEYDAY YELLOW IGLOO YELLOW PACESETTER YEL. ILL. SNOWDRIFT FANFARE SUNFIRE	STARLIGHT GOLDEN HERALD GOLD COAST HAPPINESS SUNUP SAUTERNE FLAIR YELLOW HALO DANDY STATESMAN YELLOWCHIP BRILLIANCE STARBRIGHT HONEYMOON
BRONZE & RED	S	MRS. EISENHOWER VALENTINE BEACON	IND. BRONZE NOMAGO COPPER QUEEN MRS. ROY	MRS. PALMERO BRONZE PALMERO DETROIT NEWS FRED YULE
	P	BEAUREGARD SUPR. BRONZE JUBILATION THELMA RANGER AMBERCON ILLINI WAR PAINT OLNURA BRONZE MINUET RUBAIYAT CARDINAL	JETFIRE BEAUREGARD RUBICON NECTARINE BR. DELIGHT SAMOVAR WIZARD CLIMAX GILTGLOW TUNEFUL BRONZE	RESOLUTE GAIETY PAXON BRONZE DOT BUCKSKIN SYBIL PEACHCHIP RED DAISY TANFASTIC
PINK	S		IND. PINK VANGUARD DARK ORCHID QUEEN LAUGHTER PINK F. SHOESMITH	BUNBU MARY GARDEN MISS AMERICA
	P	TAFFETA JUBILATION ILLINI SPRINGTIME ALMEGA MINUET BLUE SKIES ILLINI FORMAL	PARISIENNE DELIGHT PORTRAIT PROFILE BONNIE PENNANT SCINTILLATION CHEERFUL	PINKETTE ROSE GAIETY REWARD PINK DOT BLUECHIP DARKCHIP HANDSOME TEMPO

S—Standard

P—Pompon



## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

**BLOOM — OCTOBER 31, 1960**

LATITUDE	PLANT	PINCH*	START SHADE	RESPONSE GROUP
40-50°	JUNE 27	JULY 18	AUG. 8 AUG. 15 AUG. 22	12 WEEK 11 WEEK 10 WEEK
30-40°	JULY 4	JULY 25	AUG. 8 AUG. 15 AUG. 22	12 WEEK 11 WEEK 10 WEEK
25-30°	JULY 11	AUG. 1	AUG. 8 AUG. 15 AUG. 22	12 WEEK 11 WEEK 10 WEEK

\* For No Pinch Method: Plant on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	12 WEEK	11 WEEK	10 WEEK
<b>WHITE</b>	<b>S</b> WHITE PETER JOHN CHATTANOOGA	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH
	<b>P</b> WHITE PRINCESS SILVERCREST ILLINI PEACE CHAMP FORTUNE ILLINI GLACIER	WHITE TAFFETA SCULPTURE JUPITER Highbrow SURFSIDE PARAMOUNT BELRAY CARRARA	PING PONG SUPERTOP TIPTOP ICEBERG WHITE PENNANT DAWN STAR ILLINI IGLOO VISCOUNT SHASTA STARDUST
<b>YELLOW</b>	<b>S</b> YELLOW PETER JOHN	HARVESTER	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO YELLOW SHOESMITH
	<b>P</b> GOLDSMITH HIGHLANDER ILLINI WAMPUM YELLOW FORTUNE OMEGA YELLOW GALAXY	ETUDE SOUVENIR FORTY NINER GOLD BALL SHANE ILLINI GOLDRIFT YELLOW Highbrow LOLLIPOP KLONDIKE SULTAN GOLDEN PARAMOUNT	GOLDTOP GOLDEN BANTAM YELLOW BEAUREGARD GOLDBERG SUNFIRE LUXURY GOLDEN SHASTA JEALOUSY HEYDAY YELLOW IGLOO YEL. ILL. SNOWDRIFT FANFARE
<b>BRONZE &amp; RED</b>	<b>S</b> BR. PETER JOHN	BALCOMB'S PERFECTION CALVERT'S GOLD VALENTINE BEACON	IND. BRONZE NOMAGO COPPER QUEEN MRS. ROY
	<b>P</b> ILLINI REDWOOD BRONZE GOLDSMITH GALAXY CRACKERJACK RED EMPRESS	BEAUREGARD SUPR. THELMA RANGER AMBERCON ILLINI WAR PAINT OLNURA BRONZE MINUET RUBAIYAT CARDINAL	JETFIRE BRONZE DELIGHT BEAUREGARD RUBICON SAMOVAR WIZARD RED CLIMAX GILTGLOW TUNEFUL BRONZE
<b>PINK</b>	<b>S</b> PINK PETER JOHN DK. PINK PETER JOHN	ARISTOCRAT CALVERT'S PINK THANKS. PINK	IND. PINK VANGUARD ORCHID QUEEN LAUGHTER
	<b>P</b> LEGEND DELMAR PROM EMPRESS HI-FI	TAFFETA JUBILATION ILLINI SPRINGTIME ALMEGA MINUET BLUE SKIES CELEBRITY	PARISIENNE DELIGHT PORTRAIT BONNIE PENNANT CHEERFUL

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — NOVEMBER 7, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	JUNE 27	JULY 18	NONE NONE AUG. 1 - AUG. 29	AUG. 15 AUG. 22 AUG. 29	12 WEEK 11 WEEK 10 WEEK
30-40°	JULY 4	JULY 25	NONE NONE AUG. 1 - AUG. 29	AUG. 15 AUG. 22 AUG. 29	12 WEEK 11 WEEK 10 WEEK
25-30°	JULY 11	AUG. 1	NONE NONE AUG. 1 - AUG. 29	AUG. 15 AUG. 22 AUG. 29	12 WEEK 11 WEEK 10 WEEK

\* For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		12 WEEK	11 WEEK	10 WEEK
WHITE	S	WHITE PETER JOHN CHATTANOOGA	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH
	P	WHITE PRINCESS SILVERCREST ILLINI PEACE CHAMP FORTUNE ILLINI GLACIER	WHITE TAFFETA SCULPTURE JUPITER Highbrow SURFSIDE PARAMOUNT BELRAY CARRARA	PING PONG SUPERTOP TIPTOP ICEBERG WHITE PENNANT DAWN STAR ILLINI IGLOO VISCOUNT SHASTA STARDUST
YELLOW	S	YELLOW PETER JOHN	HARVESTER	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO YELLOW SHOESMITH
	P	GOLDSMITH HIGHLANDER ILLINI WAMPUM YELLOW FORTUNE OMEGA YELLOW GALAXY	ETUDE SOUVENIR FORTY NINER GOLD BALL SHANE ILLINI GOLDRIFT YELLOW Highbrow LOLLIPOP KLONDIKE SULTAN GOLDEN PARAMOUNT	GOLDTOP GOLDEN BANTAM YELLOW BEAUREGARD GOLDBERG SUNFIRE LUXURY GOLDEN SHASTA JEALOUSY HEYDAY YELLOW IGLOO YEL. ILL. SNOWDRIFT FANFARE
BRONZE & RED	S	BR. PETER JOHN	BALCOMB'S PERFECTION CALVERT'S GOLD VALENTINE BEACON	IND. BRONZE NOMAGO COPPER QUEEN MRS. ROY
	P	ILLINI REDWOOD BRONZE GOLDSMITH GALAXY CRACKERJACK RED EMPRESS RED GALAXY	BEAUREGARD SUPR. THELMA RANGER AMBERCON ILLINI WAR PAINT OLNURA CARDINAL BRONZE MINUET RUBAIYAT	JETFIRE BRONZE DELIGHT BEAUREGARD RUBICON SAMOVAR WIZARD RED CLIMAX GILTGLow TUNEful BRONZE
PINK	S	PINK PETER JOHN DK. PINK PETER JOHN	ARISTOCRAT CALVERT'S PINK THANKS. PINK	IND. PINK VANGUARD ORCHID QUEEN LAUGHTER
	P	LEGEND DELMAR PROM EMPRESS HI-FI SPLENDOR	TAFFETA JUBILATION ILLINI SPRINGTIME ALMEGA MINUET BLUE SKIES CELEBRITY	PARISIENNE DELIGHT PORTRAIT BONNIE PENNANT CHEERFUL

S—Standard

P—Pompon

POT PLANT SCHEDULE

VARIETY SCHEDULE

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — NOVEMBER 14, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	JULY 4	JULY 25	NONE NONE NONE AUG. 1 - SEPT. 5	AUG. 15 AUG. 22 AUG. 29 NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-40°	JULY 11	AUG. 1	NONE NONE NONE AUG. 1 - SEPT. 5	AUG. 15 AUG. 22 AUG. 29 NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	JULY 18	AUG. 8	NONE NONE AUG. 1 - SEPT. 5	AUG. 22 AUG. 29 NO	12 WEEK 11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S	CHATTANOOGA WHITE PETER JOHN	MARKETEER INDIANA MARKET	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH
	P	ICECAP ACCLAIM ILLINI ALBA SATELLITE DOLOMITE	SCULPTURE JUPITER Highbrow PARAMOUNT BELRAY	SUPERTOP ICEBERG SHASTA STARDUST LITTLE AMERICA
YELLOW	S	DK. YEL. CHAT'N'GA GOLDEN PEARSON YELLOW PETER JOHN	FRIENDLY RIVAL HARVESTER MARIE DEPETRIS	IMP. IND. YELLOW EXPLORER YELLOW QUEEN CREAM MEFO GOLDEN SHOESMITH
	P	CORONATION GOLDEN ACCLAIM SPUNGOLD DK. YEL. SATELLITE CORSAIR	ESQUIRE FORTY NINER ETUDE SHANE YEL. Highbrow GOLDEN PARAM'T	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY
BRONZE & RED	S	BRONZE PETER JOHN OAK LEAF	BALCOMB'S PERFECT. CALVERT'S GOLD VALENTINE BEACON	IND. BRONZE NOMAGO COPPER QUEEN MRS. ROY
	P	CHRISTMAS STAR APRICOT MINSTREL FLAME MINSTREL	THELMA RANGER RUSTICON BRONZE MINUET RUBAIYAT CARDINAL	BEAUREGARD JETFIRE WIZARD BRONZE DELIGHT CLIMAX TUNEFUL BRONZE
PINK	S	PINK PETER JOHN DK. PK. PETER JOHN	ARISTOCRAT CALVERT'S PINK THANKS. PINK	IND. PINK VANGUARD ORCHID QUEEN PINK F. SHOESMITH
	P	EMINENCE DEBUTANTE MINSTREL GAY MINSTREL	STACCATO VENOYA JUBILATION BLUE SKIES	DELIGHT PORTRAIT PENNANT CHEERFUL

S—Standard

P—Pompon

# YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — NOVEMBER 21, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	JULY 11	AUG. 1	NONE NONE AUG. 8 - SEPT. 5 AUG. 1 - SEPT. 12	AUG. 22 AUG. 29 NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-40°	JULY 18	AUG. 8	NONE NONE AUG. 8 - SEPT. 5 AUG. 1 - SEPT. 12	AUG. 22 AUG. 29 NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	JULY 25	AUG. 15	NONE AUG. 8 - SEPT. 5 AUG. 1 - SEPT. 12	AUG. 29 NO NO	12 WEEK 11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S	CHATTANOOGA WHITE PETER JOHN	MARKETEER INDIANA MARKET	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH
	P	ICECAP ACCLAIM ILLINI ALBA SATELLITE DOLOMITE	SCULPTURE JUPITER Highbrow PARAMOUNT BELRAY	SUPERTOP ICEBERG SHASTA STARDUST LITTLE AMERICA
YELLOW	S	DK. YEL. CHAT'N'GA GOLDEN PEARSON YELLOW PETER JOHN	FRIENDLY RIVAL HARVESTER MARIE DEPETRIS	IMP. IND. YELLOW EXPLORER YELLOW QUEEN CREAM MEFO GOLDEN SHOESMITH
	P	CORONATION GOLDEN ACCLAIM SPUNGOLD DK. YEL. SATELLITE CORSAIR	ESQUIRE FORTY NINER ETUDE SHANE YEL. Highbrow GOL. PARAMOUNT	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY
BRONZE & RED	S	BR. PETER JOHN OAK LEAF	BALCOMB'S PERFECT. CALVERT'S GOLD VALENTINE BEACON	IND. BRONZE NOMAGO COPPER QUEEN MRS. ROY
	P	CHRISTMAS STAR APRICOT MINSTREL FLAME MINSTREL	THELMA RANGER RUSTICON BRONZE MINUET RUBAIYAT CARDINAL	BEAUREGARD JETFIRE WIZARD BR. DELIGHT CLIMAX
PINK	S	PINK PETER JOHN DK. PK. PETER JOHN	ARISTOCRAT CALVERT'S PINK THANKS. PINK	IND. PINK VANGUARD ORCHID QUEEN PINK F. SHOESMITH
	P	EMINENCE DEBUTANTE MINSTREL GAY MINSTREL	STACCATO VENOYA JUBILATION BLUE SKIES	DELIGHT PORTRAIT PENNANT CHEERFUL

S—Standard

P—Pompon



## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — NOVEMBER 28, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	JULY 18	AUG. 8	NONE NONE AUG. 15 - SEPT. 5 AUG. 8 - SEPT. 12 AUG. 1 - SEPT. 19	AUG. 22 AUG. 29 NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-40°	JULY 25	AUG. 15	NONE NONE AUG. 15 - SEPT. 5 AUG. 8 - SEPT. 12 AUG. 1 - SEPT. 19	AUG. 22 AUG. 29 NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	AUG. 1	AUG. 22	AUG. 15 - SEPT. 5 AUG. 8 - SEPT. 12 AUG. 1 - SEPT. 19	NO NO NO	12 WEEK 11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S	SMITH'S WHITE DEC. WHITE	CHATTANOOGA DECEMBER GLORY MARG'ET MOELLER	MARKETEER	IND. NO. 3 WH. CRYSTAL QUEEN MEFO FRED SHOESMITH
	P	TRENTON SILVERSMITH SNOWCAP ELEGANCE	ICECAP ACCLAIM ILLINI ALBA SATELLITE DOLOMITE SNOWCREST	SILVERCREST ILLINI PEACE WHITE VALENCIA FORTUNE ILLINI GLACIER	SCULPTURE JUPITER Highbrow PARAMOUNT BELRAY CARRARA
YELLOW	S	ILL. BRIGHTYES SHAMROCK GOLD. ELEGANCE SUN VALLEY VIBRANT	TOBIN'S YELLOW METEORE DAUNTLESS	ESQUIRE FORTY NINER SHANE ILL. GOLDRIFT YEL. Highbrow GOL. PARAMOUNT	SUPERTOP ICEBERG SHASTA STARDUST LITTLE AMERICA ILLINI SNOWDRIFT
	P	CORONATION GOLD. ACCLAIM SPUNGOLD DK. YEL. SATELLITE CORSAIR YEL. SNOWCREST	DK. YEL. CHAT'N'GA GOL. MRS. ROSS GOLDEN MOELLER	FRIENDLY RIVAL HARVESTER MARIE DEPETRIS	IMP. IND. YELLOW EXPLORER CREAM MEFO GOLDEN SHOESMITH
BRONZE & RED	S	BRONZE ALVODA BR. RIVIERA CHRIST. GREET'G ILL. HOMESPUN POINSETTIA	GLADYS PEARSON OAK LEAF	BALCOMB'S PERF. CALVERT'S GOLD	IND. BRONZE COPPER QUEEN
	P	DEBONAIR CHRISTMAS STAR HARLEQUIN AP'COT MINSTREL FLAME MINSTREL	AP'COT VALENCIA GALAXY HOLIDAY CRACKERJACK RED EMPRESS RED GALAXY	BR. JUBILATION VALENTINE ILL. WAR PAINT OLNURA RUBAIYAT CARDINAL	JETFIRE BEAUREGARD WIZARD BRONZE DELIGHT CLIMAX
PINK	S	PINK MISTLETOE	PINK PETER JOHN DK. PK. PETER JOHN	CALVERT'S PINK THANKS. PINK ED SEIDEWITZ	IND. PINK ORCHID QUEEN PK. F. SHO'SM'TH
	P	ALVODA RIVIERA ROSALIND DEFIANCE	LEGEND DELMAR PROM EMPRESS SPLENDOR HI-FI	STACCATO JUBILATION ALMEGA BLUE SKIES	DELIGHT PROFILE CHEERFUL

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

### BLOOM — DECEMBER 5, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	JULY 18	AUG. 8	NONE	AUG. 22	14 WEEK
			NONE	NO	13 WEEK
			AUG. 15 - SEPT. 12	NO	12 WEEK
			AUG. 8 - SEPT. 19	NO	11 WEEK
			AUG. 1 - SEPT. 26	NO	10 WEEK
30-40°	JULY 25	AUG. 15	NONE	AUG. 22	14 WEEK
			NONE	NO	13 WEEK
			AUG. 15 - SEPT. 12	NO	12 WEEK
			AUG. 8 - SEPT. 19	NO	11 WEEK
			AUG. 1 - SEPT. 26	NO	10 WEEK
25-30°	AUG. 8	AUG. 29	AUG. 15 - SEPT. 12	NO	12 WEEK
			AUG. 8 - SEPT. 19	NO	11 WEEK
			AUG. 1 - SEPT. 26	NO	10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S	SMITH'S WHITE DEC. WHITE	CHATTANOOGA DEC. GLORY MARG'ET MOELLER	MARKETEER	IND. NO. 3 WH. CRYSTAL QUEEN MEFO FRED SHOESMITH
	P	TRENTON SILVERSMITH SNOWCAP ELEGANCE	SILVERCREST ILLINI PEACE WHITE VALENCIA FORTUNE ILLINI GLACIER	SCULPTURE JUPITER HIGHBROW PARAMOUNT BELRAY CARRARA	SUPERTOP ICEBERG SHASTA STARDUST LITTLE AMERICA ILLINI SNOWDRIFT
YELLOW	S	TOBIN'S YELLOW METEORE DAUNTLESS	DK. YEL. CHAT'N'GA GOLD. MRS. ROSS GOLDEN MOELLER	FRIENDLY RIVAL HARVESTER MARIE DE PETRIS	IMP. IND. YEL. EXPLORER CREAM MEFO GOL. SHOESMITH
	P	ILL. BRIGHTYES SHAMROCK GAL. ELEGANCE SUN VALLEY VIBRANT	CORONATION GOLD. ACCLAIM SPUNGOLD DK. YEL. SAT. CORSAIR YEL. SNOWCREST	HIGHLANDER YEL. VALENCIA ILLINI WAMPUM YELLOW FORTUNE OMEGA YELLOW GALAXY	ESQUIRE FORTY NINER SHANE ILL. GOLDRIFT YELLOW HIGHBROW GOLD. PARAM'NT
BRONZE & RED	S		GLADYS PEARSON OAK LEAF	BALCOMB'S PERF. CALVERT'S GOLD	IND. BRONZE COPPER QUEEN
	P	BRONZE ALVODA BR. RIVIERA ILL. HOMESPUN CHRIST. GREET'G POINSETTIA	DEBONAIR CHRISTMAS STAR HARLEQUIN AP'COT MINST'L FLAME MINSTREL	AP'COT VALENCIA GALAXY HOLIDAY CRACKERJACK RED EMPRESS RED GALAXY	BR. JUBILATION VALENTINE ILL. WAR PAINT OLNURA RUBAIYAT CARDINAL
PINK	S		PINK MISTLETOE	PK. PETER JOHN DK. PK. PETER JOHN	CALVERT'S PINK THANKS. PINK ED SEIDEWITZ
	P	ALVODA RIVIERA ROSALIND DEFIANCE	EMINENCE DEBUTANTE MINSTREL GAY MINSTREL	LEGEND DELMAR SPLENDOR PROM EMPRESS HI-FI	STACCATO JUBILATION ALMEGA BLUE SKIES

S—Standard

P—Pompon

# YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — DECEMBER 12, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	JULY 25	AUG. 15	NONE AUG. 22 - SEPT. 12 AUG. 15 - SEPT. 19 AUG. 8 - SEPT. 26 AUG. 1 - OCT. 3	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	AUG. 1	AUG. 22	NONE AUG. 22 - SEPT. 12 AUG. 15 - SEPT. 19 AUG. 8 - SEPT. 26 AUG. 1 - OCT. 3	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-35°	AUG. 8	AUG. 29	NONE AUG. 22 - SEPT. 12 AUG. 15 - SEPT. 19 AUG. 8 - SEPT. 26 AUG. 1 - OCT. 3	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	AUG. 15	SEPT. 5	AUG. 15 - SEPT. 19 AUG. 8 - SEPT. 26 AUG. 1 - OCT. 3	NO NO NO	12 WEEK 11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

	14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S	SMITH'S WHITE DEC. WHITE	CHATTANOOGA DEC. GLORY MARG'ET MOELLER	MARKETEER	IND. NO. 3 WH. CRYSTAL QUEEN MEFO FRED SHOESMITH
	P	TRENTON SILVERSMITH SNOWCAP ELEGANCE	SILVERCREST ILLINI PEACE WHITE VALENCIA FORTUNE ILLINI GLACIER	SCULPTURE JUPITER HIGHBROW PARAMOUNT BELRAY CARRARA	SUPERTOP ICEBERG SHASTA STARDUST LITTLE AMERICA ILLINI SNOWDRIFT
YELLOW	S	TOBIN'S YELLOW METEORE DAUNTLESS	DK. YEL. CHAT'N'GA GOLDEN MOELLER YELLOW GLORY	HARVESTER MARIE DE PETRIS	IMP. IND. YEL. EXPLORER CREAM MEFO GOL. SHOESMITH
	P	ILL. BRIGHTYES SHAMROCK GOL. ELEGANCE SUN VALLEY VIBRANT	CORONATION GOLD. ACCLAIM SPUNGOLD DK. YEL. SATEL. CORSAIR YEL. SNOWCREST	HIGHLANDER YEL. VALENCIA ILLINI WAMPUM YELLOW FORTUNE OMEGA YELLOW GALAXY	ESQUIRE FORTY NINER SHANE ILL. GOLDRIFT YELLOW HIGHBROW GOL. PARAM'NT
BRONZE & RED	S		GLADYS PEARSON OAK LEAF	BALCOMB'S PERF. CALVERT'S GOLD	IND. BRONZE COPPER QUEEN
	P	BRONZE ALVODA BR. RIVIERA CHRIST. GREET'G ILL. HOMESPUN POINSETTIA	CHRIST. STAR HARLEQUIN AP'COT MINSTREL FLAME MINSTREL	AP'COT VALENCIA GALAXY HOLIDAY CRACKERJACK RED EMPRESS RED GALAXY	BR. JUBILATION VALENTINE ILL. WAR PAINT OLNURA RUBAIYAT CARDINAL
PINK	S		PINK MISTLETOE	PINK PETER JOHN D. PK. PETER JOHN	CALVERT'S PINK THANKS. PINK ED SEIDEWITZ
	P	ALVODA RIVIERA ROSALIND DEFIANCE	EMINENCE DEBUTANTE MINSTREL GAY MINSTREL	LEGEND DELMAR PROM EMPRESS HI-FI SPLENDOR	STACCATO JUBILATION ALMEGA BLUE SKIES

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — DECEMBER 19, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	AUG. 1	AUG. 22	NONE	NO	15 WEEK
			AUG. 29 - SEPT. 12	NO	14 WEEK
			AUG. 22 - SEPT. 19	NO	13 WEEK
			AUG. 15 - SEPT. 26	NO	12 WEEK
			AUG. 8 - OCT. 3	NO	11 WEEK
			AUG. 1 - OCT. 10	NO	10 WEEK
35-40°	AUG. 15	SEPT. 5	NONE	NO	15 WEEK
			AUG. 29 - SEPT. 12	NO	14 WEEK
			AUG. 22 - SEPT. 19	NO	13 WEEK
			AUG. 15 - SEPT. 26	NO	12 WEEK
			AUG. 15 - OCT. 3	NO	11 WEEK
			AUG. 15 - OCT. 10	NO	10 WEEK
30-35°	AUG. 22	SEPT. 12	AUG. 22 - SEPT. 19	NO	13 WEEK
			AUG. 22 - SEPT. 26	NO	12 WEEK
			AUG. 22 - OCT. 3	NO	11 WEEK
			AUG. 22 - OCT. 10	NO	10 WEEK
25-30°	AUG. 22	SEPT. 12	AUG. 22 - SEPT. 26	NO	12 WEEK
			AUG. 22 - OCT. 3	NO	11 WEEK
			AUG. 22 - OCT. 10	NO	10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	15 WEEK	14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S			CHATTANOOGA DECEMBER GLORY	MARKETEER	IND. NO. 3 WH. CRYSTAL QUEEN MEFO FRED SHOESMITH
	P	REVELATION SNOW TALMEDA ILL. CASCADE	TRENTON SILVERSMITH SNOWCAP ELEGANCE	ICECAP ACCLAIM ILLINI ALBA SATELLITE DOLOMITE SNOWCREST	SILVERCREST ILLINI PEACE WHITE VALENCIA FORTUNE ILLINI GLACIER	SCULPTURE JUPITER HIGHBROW PARAMOUNT BELRAY CARRARA
YELLOW	S			DK. YEL. CHAT'N'GA YELLOW GLORY	HARVESTER MARIE DE PETRIS	IMP. IND. YEL. EXPLORER CREAM MEFO GOL. SHOESMITH
	P	SIREN YULEFLAME YEL. SNOW	ILL. BRIGHTYES SHAMROCK GOL. ELEGANCE SUN VALLEY VIBRANT	CORONATION GOLD. ACCLAIM SPUNGOLD DK. YEL. SATEL. CORSAIR YEL. SNOWCREST	HIGHLANDER YEL. VALENCIA ILLINI WAMPUM YELLOW FORTUNE OMEGA YELLOW GALAXY	ESQUIRE FORTY NINER SHANE ILL. GOLDRIFT YEL. HIGHBOW GOL. PARAM'NT
BRONZE & RED	S			GLADYS PEARSON OAK LEAF	BALCOMB'S PERF. CALVERT'S GOLD	IND. BRONZE COPPER QUEEN
	P	BRONZE ALVODA BR. RIVIERA CHRIST. GREET'G ILL. HOMESPUN POINSETTIA	CHRISTMAS STAR HARLEQUIN AP'COT MINSTREL FLAME MINSTREL	AP'COT VALENCIA GALAXY HOLIDAY CRACKERJACK RED EMPRESS RED GALAXY	BR. JUBILATION VALENTINE ILL. WAR PAINT OLNURA RUBAIYAT CARDINAL	JETFIRE BEAUREGARD WIZARD BRONZE DELIGHT CLIMAX
PINK	S			PINK PETER JOHN D. PK. PET. JOHN	CALVERT'S PINK THANKS. PINK ED SEIDEWITZ	IND. PINK ORCHID QUEEN PK. F. SHO'SM'TH
	P	ALVODA RIVIERA ROSALIND DEFIANCE	EMINENCE DEBUTANTE MINSTREL GAY MINSTREL	LEGEND DELMAR PROM EMPRESS HI-FI SPLENDOR	STACCATO JUBILATION ALMEGA BLUE SKIES	DELIGHT PROFILE CHEERFUL

S—Standard

P—Pompon

POT PLANT SCHEDULE

VARIETY SCHEDULE



## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — DECEMBER 26, 1960

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	SHADE START	RESPONSE GROUP
40-50°	AUG. 8	AUG. 29	NONE AUG. 29 - SEPT. 19 AUG. 22 - SEPT. 26 AUG. 15 - OCT. 3 AUG. 8 - OCT. 10 AUG. 8 - OCT. 17	NO NO NO NO NO	15 WEEK 14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	AUG. 15	SEPT. 5	NONE AUG. 29 - SEPT. 19 AUG. 22 - SEPT. 26 AUG. 15 - OCT. 3 AUG. 15 - OCT. 10 AUG. 15 - OCT. 17	NO NO NO NO NO NO	15 WEEK 14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-35°	AUG. 22	SEPT. 12	AUG. 22 - SEPT. 26 AUG. 22 - OCT. 3 AUG. 22 - OCT. 10 AUG. 22 - OCT. 17	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	AUG. 29	SEPT. 19	AUG. 29 - OCT. 3 AUG. 29 - OCT. 10 AUG. 29 - OCT. 17	NO NO NO	12 WEEK 11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	15 WEEK	14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S			CHATTANOOGA DECEMBER GLORY	MARKETEER	IND. NO. 3 WH. CRYSTAL QUEEN MEFO FRED SHOESMITH
	P	REVELATION SNOW TALMEDA ILL. CASCADE	TRENTON SILVERSMITH SNOWCAP ELEGANCE	ICECAP ACCLAIM ILLINI ALBA SATELLITE DOLOMITE SNOWCREST	SILVERCREST ILLINI PEACE WHITE VALENCIA FORTUNE ILLINI GLACIER	SCULPTURE JUPITER HIGHBROW PARAMOUNT BELRAY CARRARA
YELLOW	S			DK. YEL. CHAT'N'GA YELLOW GLORY	HARVESTER MARIE DePETRIE	IMP. IND. YEL. EXPLORER CREAM MEFO GOL. SHOESMITH
	P	SIREN YULEFLAME YEL. SNOW	ILL. BRIGHTYES SHAMROCK GOL. ELEGANCE SUN VALLEY VIBRANT	CORONATION GOLD. ACCLAIM SPUNGOLD DK. YEL. SATEL. CORSAIR YEL. SNOWCREST	HIGHLANDER YEL. VALENCIA ILLINI WAMPUM YELLOW FORTUNE OMEGA YELLOW GALAXY	ESQUIRE FORTY NINER SHANE ILL. GOLDRIFT YEL. HIGHBOW GOL. PARAM'NT
BRONZE & RED	S			GLADYS PEARSON OAK LEAF	BALCOMB'S PERF. CALVERT'S GOLD	IND. BRONZE COPPER QUEEN
	P	BRONZE ALVODA BR. RIVIERA CHRIST. GREET'G ILL. HOMESPUN POINSETTIA	CHRISTMAS STAR HARLEQUIN AP'COT MINSTREL FLAME MINSTREL	AP'COT VALENCIA GALAXY HOLIDAY CRACKERJACK RED EMPRESS RED GALAXY	BR. JUBILATION VALENTINE ILL. WAR PAINT OLNURA RUBAIYAT CARDINAL	JETFIRE BEAUREGARD WIZARD BRONZE DELIGHT CLIMAX
PINK	S			PINK PETER JOHN D. PK. PET. JOHN	CALVERT'S PINK THANKS. PINK ED SEIDEWITZ	IND. PINK ORCHID QUEEN PK. F. SHO'SM'TH
	P	ALVODA RIVIERA ROSALIND DEFIANCE	EMINENCE DEBUTANTE MINSTREL GAY MINSTREL	LEGEND DELMAR PROM SPLENDOR EMPRESS HI-FI	STACCATO JUBILATION ALMEGA BLUE SKIES	DELIGHT PROFILE CHEERFUL

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — JANUARY 2, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	AUG. 15	SEPT. 5	AUG. 29 - SEPT. 26	NO	14 WEEK
			AUG. 22 - OCT. 3	NO	13 WEEK
			AUG. 15 - OCT. 10	NO	12 WEEK
			AUG. 15 - OCT. 17	NO	11 WEEK
			AUG. 15 - OCT. 24	NO	10 WEEK
35-40°	AUG. 22	SEPT. 12	AUG. 29 - SEPT. 26	NO	14 WEEK
			AUG. 22 - OCT. 3	NO	13 WEEK
			AUG. 22 - OCT. 10	NO	12 WEEK
			AUG. 22 - OCT. 17	NO	11 WEEK
			AUG. 22 - OCT. 24	NO	10 WEEK
30-35°	AUG. 29	SEPT. 19	AUG. 29 - OCT. 3	NO	13 WEEK
			AUG. 29 - OCT. 10	NO	12 WEEK
			AUG. 29 - OCT. 17	NO	11 WEEK
			AUG. 29 - OCT. 24	NO	10 WEEK
25-30°	SEPT. 5	SEPT. 26	SEPT. 5 - OCT. 10	NO	12 WEEK
			SEPT. 5 - OCT. 17	NO	11 WEEK
			SEPT. 5 - OCT. 24	NO	10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S		DECEMBER GLORY WH. PETER JOHN	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO
	P	SILVERSMITH SNOWCAP	ICECAP ACCLAIM SNOWSTORM ILLINI ALBA NORTHWIND SATELLITE SNOWCREST	JUPITER SURFSIDE SCULPTURE BELRAY	WHITETOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S		GOLDEN PEARSON YELLOW GLORY		IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO
	P	ILL. BRIGHTYES SUN VALLEY	CORONATION CINDERELLA GOLD ACCLAIM SPUNGOLD CORSAIR YEL. SNOWCREST	OMEGA YELLOW GALAXY	YEL. SCULPTURE SOUVENIR ESQUIRE SHANE ILLINI GOLDRIFT
BRONZE & RED	S		OAK LEAF BR. PETER JOHN	VALENTINE CALVERT'S OR'GE	IND. BRONZE COPPER QUEEN
	P	BR. ALVODA BR. RIVIERA ILL. HOMESPUN	CHRISTMAS STAF	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA CARDINAL
PINK	S		PINK PETER JOHN	THANKS. PINK ED SEIDEWITZ	IND. PINK ORCHID QUEEN
	P	ALVODA DARK ALVODA RIVIERA ROSALIND	EMINENCE PINK SNOWDROP DEBUTANTE	LEGEND DELMAR EMPRESS PROM SPLENDOR HI-FI	RHYTHM VEDOVA STACCATO BLUE SKIES CELEBRITY

S—Standard

P—Pompon

POT PLANT SCHEDULE

VARIETY SCHEDULE

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — JANUARY 9, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	AUG. 15	SEPT. 5	AUG. 29 - OCT. 3 AUG. 22 - OCT. 10 AUG. 15 - OCT. 17 AUG. 15 - OCT. 24 AUG. 15 - OCT. 31	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	AUG. 22	SEPT. 12	AUG. 29 - OCT. 3 AUG. 22 - OCT. 10 AUG. 22 - OCT. 17 AUG. 22 - OCT. 24 AUG. 22 - OCT. 31	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-35°	AUG. 29	SEPT. 19	AUG. 29 - OCT. 10 AUG. 29 - OCT. 17 AUG. 29 - OCT. 24 AUG. 29 - OCT. 31	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	SEPT. 12	OCT. 3	SEPT. 12 - OCT. 17 SEPT. 12 - OCT. 24 SEPT. 12 - OCT. 31	NO NO NO	12 WEEK 11 WEEK 10 WEEK

\* For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S		DECEMBER GLORY WH. PETER JOHN	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO
	P	SILVERSMITH SNOWCAP	ICECAP ACCLAIM SNOWSTORM ILLINI ALBA NORTHWIND SATELLITE SNOWCREST	JUPITER SURFSIDE SCULPTURE BELRAY	WHITETOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S		GOLDEN PEARSON YELLOW GLORY		IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO
	P	ILL. BRIGHTYES SUN VALLEY	CORONATION GOLD ACCLAIM CINDERELLA SPUNGOLD CORSAIR YEL. SNOWCREST	OMEGA YELLOW GALAXY	YEL. SCULPTURE SOUVENIR ESQUIRE SHANE ILLINI GOLDRIFT
BRONZE & RED	S		OAK LEAF BR. PETER JOHN	VALENTINE CALVERT'S OR'GE	IND. BRONZE COPPER QUEEN
	P	BR. ALVODA BR. RIVIERA ILL. HOMESP'N	CHRISTMAS STAR	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA CARDINAL
PINK	S		PINK PETER JOHN	THANKS. PINK ED SEIDEWITZ	IND. PINK ORCHID QUEEN
	P	ALVODA DARK ALVODA RIVIERA ROSALIND	EMINENCE PINK SNOWDROP DEBUTANTE	LEGEND DELMAR EMPRESS PROM SPLENDOR HI-FI	RHYTHM VEDOVA STACCATO BLUE SKIES CELEBRITY
					PORTRAIT PROFILE BONNIE

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — JANUARY 16, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	AUG. 22	SEPT. 12	AUG. 29 - OCT. 10 AUG. 22 - OCT. 17 AUG. 22 - OCT. 24 AUG. 22 - OCT. 31 AUG. 22 - NOV. 7	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	AUG. 29	SEPT. 19	AUG. 29 - OCT. 10 AUG. 29 - OCT. 17 AUG. 29 - OCT. 24 AUG. 29 - OCT. 31 AUG. 29 - NOV. 7	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-35°	SEPT. 5	SEPT. 26	SEPT. 5 - OCT. 17 SEPT. 5 - OCT. 24 SEPT. 5 - OCT. 31 SEPT. 5 - NOV. 7	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	SEPT. 19	OCT. 10	SEPT. 19 - OCT. 24 SEPT. 19 - OCT. 31 SEPT. 19 - NOV. 7	NO NO NO	12 WEEK 11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S			DECEMBER GLORY	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO
	P	SILVERSMITH SNOWCAP	ICECAP ACCLAIM SNOWSTORM ILLINI ALBA NORTHWIND SATELLITE SNOWCREST		JUPITER SURFSIDE SCULPTURE BELRAY	WHITETOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S			GOLDEN PEARSON YELLOW GLORY		IMP. IND. YEL. EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO
	P	ILL. BRIGHTYES	CORONATION CINDERELLA GOLDEN ACCLAIM SPUNGOLD CORSAIR YEL. SNOWCREST	OMEGA YELLOW GALAXY	YEL. SCULPTURE SOUVENIR ESQUIRE SHANE ILLINI GOLDRIFT	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY
BRONZE & RED	S			OAK LEAF	VALENTINE CALVERT'S OR'GE	IND. BRONZE COPPER QUEEN
	P	BR. ALVODA BR. RIVIERA ILL. HOMESPUN	CHRISTMAS STAR	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA CARDINAL	BEAUREGARD BR. PORTRAIT CLIMAX
PINK	S			PINK PETER JOHN	THANKS. PINK ED SEIDEWITZ	IND. PINK ORCHID QUEEN
	P	ALVODA DARK ALVODA RIVIERA ROSALIND	EMINENCE PINK SNOWDROP DEBUTANTE	LEGEND DELMAR EMPRESS PROM SPLENDOR HI-FI	RHYTHM VEDOVA STACCATO BLUE SKIES CELEBRITY	PORTRAIT PROFILE BONNIE

S—Standard

P—Pompon

POT PLANT SCHEDULE

VARIETY SCHEDULE



## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — JANUARY 23, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	AUG. 29	SEPT. 19	AUG. 29 - OCT. 17 AUG. 29 - OCT. 24 AUG. 29 - OCT. 31 AUG. 29 - NOV. 7 AUG. 29 - NOV. 14	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	SEPT. 5	SEPT. 26	SEPT. 5 - OCT. 17 SEPT. 5 - OCT. 24 SEPT. 5 - OCT. 31 SEPT. 5 - NOV. 7 SEPT. 5 - NOV. 14	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-35°	SEPT. 12	OCT. 3	SEPT. 12 - OCT. 24 SEPT. 12 - OCT. 31 SEPT. 12 - NOV. 7 SEPT. 12 - NOV. 14	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	SEPT. 19	OCT. 10	SEPT. 19 - OCT. 31 SEPT. 19 - NOV. 7 SEPT. 19 - NOV. 14	NO NO NO	12 WEEK 11 WEEK 10 WEEK

\* For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S		DECEMBER GLORY	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO
	P	SILVERSMITH SNOWCAP	ICECAP ACCLAIM SNOWSTORM ILLINI ALBA NORTHWIND SATELLITE SNOWCREST	JUPITER SURFSIDE SCULPTURE BELRAY	WHITETOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S		GOLDEN PEARSON YELLOW GLORY		IMP. IND. YEL. EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO
	P	ILL. BRIGHTYES	CORONATION GOLDEN ACCLAIM CINDERELLA SPUNGOLD CORSAIR YEL. SNOWCREST	OMEGA YELLOW GALAXY	YEL. SCULPTURE SOUVENIR ESQUIRE SHANE ILLINI GOLDRIFT
BRONZE & RED	S		OAK LEAF	VALENTINE CALVERT'S GOLD	IND. BRONZE COPPER QUEEN
	P	BR. ALVODA BR. RIVIERA ILL. HOMESPUN	CHRISTMAS STAR	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA CARDINAL
PINK	S			THANKS. PINK ED SEIDEWITZ	IND. PINK ORCHID QUEEN
	P	ALVODA DARK ALVODA RIVIERA ROSALIND	EMINENCE PINK SNOWDROP DEBUTANTE	LEGEND DELMAR EMPRESS PROM SPLENDOR HI-FI	RHYTHM VEDOVA STACCATO BLUE SKIES CELEBRITY

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — JANUARY 30, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	AUG. 29	SEPT. 19	AUG. 29 - OCT. 24 AUG. 29 - OCT. 31 AUG. 29 - NOV. 7 AUG. 29 - NOV. 14 AUG. 29 - NOV. 21	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	SEPT. 5	SEPT. 26	SEPT. 5 - OCT. 31 SEPT. 5 - NOV. 7 SEPT. 5 - NOV. 14 SEPT. 5 - NOV. 21	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-35°	SEPT. 19	OCT. 10	SEPT. 19 - OCT. 31 SEPT. 19 - NOV. 7 SEPT. 19 - NOV. 14 SEPT. 19 - NOV. 21	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	SEPT. 26	OCT. 17	SEPT. 26 - NOV. 7 SEPT. 26 - NOV. 14 SEPT. 26 - NOV. 21	NO NO NO	12 WEEK 11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S			DECEMBER GLORY	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO
	P	SILVERSMITH SNOWCAP	ICECAP ACCLAIM SNOWSTORM ILLINI ALBA NORTHWIND SATELLITE SNOWCREST		JUPITER SURFSIDE SCULPTURE BELRAY	WHITETOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S			GOLDEN PEARSON YELLOW GLORY		IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO
	P	ILL. BRIGHTYES	CORONATION GOLDEN ACCLAIM CINDERELLA SPUNGOLD CORSAIR YEL. SNOWCREST	OMEGA YELLOW GALAXY	YEL. SCULPTURE SOUVENIR ESQUIRE SHANE ILLINI GOLDRIFT	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY
BRONZE & RED	S			OAK LEAF	VALENTINE CALVERT'S GOLD	IND. BRONZE COPPER QUEEN
	P	BR. ALVODA BR. RIVIERA ILL. HOMESPUN	CHRISTMAS STAR	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA CARDINAL	BEAUREGARD BR. PORTRAIT CLIMAX
PINK	S				THANKS. PINK ED SEIDEWITZ	IND. PINK ORCHID QUEEN
	P	ALVODA DARK ALVODA RIVIERA ROSALIND	PINK SNOWDROP DEBUTANTE	LEGEND DELMAR EMPRESS PROM SPLENDOR HI-FI	RHYTHM VEDOVA STACCATO BLUE SKIES CELEBRITY	PORTRAIT PROFILE BONNIE

S—Standard

P—Pompon

POT PLANT SCHEDULE

VARIETY SCHEDULE

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — FEBRUARY 6, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	SEPT. 5	SEPT. 26	SEPT. 5 - OCT. 31 SEPT. 5 - NOV. 7 SEPT. 5 - NOV. 14 SEPT. 5 - NOV. 21 SEPT. 5 - NOV. 28	NO NO NO NO NO	14 WEEK 13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	SEPT. 12	OCT. 3	SEPT. 12 - NOV. 7 SEPT. 12 - NOV. 14 SEPT. 12 - NOV. 21 SEPT. 12 - NOV. 28	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-35°	SEPT. 26	OCT. 17	SEPT. 26 - NOV. 7 SEPT. 26 - NOV. 14 SEPT. 26 - NOV. 21 SEPT. 26 - NOV. 28	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
25-30°	OCT. 3	OCT. 24	OCT. 3 - NOV. 21 OCT. 3 - NOV. 28	NO NO	11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	14 WEEK	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S		DECEMBER GLORY	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO
	P	SILVERSMITH SNOWCAP	ICECAP ACCLAIM SNOWSTORM ILLINI ALBA SATELLITE SNOWCREST	JUPITER SURFSIDE SCULPTURE BELRAY	WHITETOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S		GOLDEN PEARSON YELLOW GLORY		IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO
	P	ILL. BRIGHTYES	CORONATION GOLDEN ACCLAIM CINDERELLA SPUNGOLD CORSAIR YEL. SNOWCREST	YEL. SCULPTURE SOUVENIR ESQUIRE SHANE ILLINI GOLDRIFT	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY
BRONZE & RED	S		OAK LEAF	VALENTINE CALVERT'S GOLD	IND. BRONZE COPPER QUEEN
	P	BR. ALVODA BR. RIVIERA ILL. HOMESPUN	CHRISTMAS STAR	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA CARDINAL
PINK	S			THANKS. PINK ED SEIDEWITZ	IND. PINK ORCHID QUEEN
	P	ALVODA DARK ALVODA RIVIERA ROSALIND	PINK SNOWDROP DEBUTANTE	LEGEND DELMAR EMPRESS PROM SPLENDOR HI-FI	RHYTHM VEDOVA STACCATO BLUE SKIES CELEBRITY
					PORTRAIT PROFILE BONNIE

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — FEBRUARY 13, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	SEPT. 12	OCT. 3	SEPT. 12 - NOV. 14 SEPT. 12 - NOV. 21 SEPT. 12 - NOV. 28 SEPT. 12 - DEC. 5	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	SEPT. 19	OCT. 10	SEPT. 19 - NOV. 14 SEPT. 19 - NOV. 21 SEPT. 19 - NOV. 28 SEPT. 19 - DEC. 5	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
30-35°	OCT. 3	OCT. 24	OCT. 3 - NOV. 21 OCT. 3 - NOV. 28 OCT. 3 - DEC. 5	NO NO NO	12 WEEK 11 WEEK 10 WEEK
25-30°	OCT. 10	OCT. 31	OCT. 10 - NOV. 28 OCT. 10 - DEC. 5	NO NO	11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S		DECEMBER GLORY	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO
	P	ICECAP ACCLAIM SNOWSTORM ILLINI ALBA SATELLITE SNOWCREST		JUPITER SURFSIDE SCULPTURE BELRAY	WHITETOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S		GOLDEN PEARSON YELLOW GLORY		IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO
	P	CORONATION GOLDEN ACCLAIM CINDERELLA SPUNGOLD CORSAIR YEL. SNOWCREST	OMEGA YELLOW GALAXY	YEL. SCULPTURE SOUVENIR ESQUIRE SHANE ILLINI GOLDRIFT	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY
BRONZE & RED	S		OAK LEAF	VALENTINE CALVERT'S ORANGE	IND. BRONZE COPPER QUEEN
	P	CHRISTMAS STAR	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA CARDINAL	BEAUREGARD BR. PORTRAIT CLIMAX
PINK	S				IND. PINK ORCHID QUEEN
	P	PINK SNOWDROP DEBUTANTE	LEGEND DELMAR PROM SPLENDOR HI-FI	RHYTHM STACCATO BLUE SKIES	PORTRAIT PROFILE BONNIE

S—Standard

P—Pompon



# YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — FEBRUARY 20, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	SEPT. 19	OCT. 10	SEPT. 19 - NOV. 21 SEPT. 19 - NOV. 28 SEPT. 19 - DEC. 5 SEPT. 19 - DEC. 12	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	SEPT. 26	OCT. 17	SEPT. 26 - NOV. 28 SEPT. 26 - DEC. 5 SEPT. 26 - DEC. 12	NO NO NO	12 WEEK 11 WEEK 10 WEEK
30-35°	OCT. 10	OCT. 31	OCT. 10 - NOV. 28 OCT. 10 - DEC. 5 OCT. 10 - DEC. 12	NO NO NO	12 WEEK 11 WEEK 10 WEEK
25-30°	OCT. 17	NOV. 7	OCT. 17 - DEC. 5 OCT. 17 - DEC. 12	NO NO	11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S	DECEMBER GLORY	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO
	P ICECAP ACCLAIM SNOWSTORM ILLINI ALBA SATELLITE SNOWCREST		JUPITER SURFSIDE SCULPTURE BELRAY	WHITETOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S	GOLDEN PEARSON YELLOW GLORY		IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO
	P CORONATION GOLDEN ACCLAIM CINDERELLA SPUNGOLD CORSAIR YELLOW SNOWCREST	OMEGA YELLOW GALAXY	YEL. SCULPTURE SOUVENIR ESQUIRE SHANE ILLINI GOLDRIFT	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY
BRONZE & RED	S	OAK LEAF	VALENTINE CALVERT'S ORANGE	IND. BRONZE COPPER QUEEN
	P CHRISTMAS STAR	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA CARDINAL	BEAUREGARD BR. PORTRAIT CLIMAX
PINK	S			IND. PINK ORCHID QUEEN
	P PINK SNOWDROP DEBUTANTE	LEGEND DELMAR PROM SPLENDOR HI-FI	RHYTHM STACCATO BLUE SKIES	PORTRAIT PROFILE BONNIE

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

**BLOOM — FEBRUARY 27, 1961**

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	SEPT. 26	OCT. 17	SEPT. 26 - NOV. 28	NO	13 WEEK
			SEPT. 26 - DEC. 5	NO	12 WEEK
			SEPT. 26 - DEC. 12	NO	11 WEEK
			SEPT. 26 - DEC. 19	NO	10 WEEK
35-40°	OCT. 10	OCT. 31	OCT. 10 - DEC. 5	NO	12 WEEK
			OCT. 10 - DEC. 12	NO	11 WEEK
			OCT. 10 - DEC. 19	NO	10 WEEK
30-35°	OCT. 17	NOV. 7	OCT. 17 - DEC. 5	NO	12 WEEK
			OCT. 17 - DEC. 12	NO	11 WEEK
			OCT. 17 - DEC. 19	NO	10 WEEK
25-30°	OCT. 24	NOV. 14	OCT. 24 - DEC. 12	NO	11 WEEK
			OCT. 24 - DEC. 19	NO	10 WEEK

\* For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S		DECEMBER GLORY	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO
	P	ICECAP SNOWSTORM ILLINI ALBA SATELLITE SNOWCREST ACCLAIM		JUPITER SURFSIDE SCULPTURE BELRAY	WHITETOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S		GOLDEN PEARSON YELLOW GLORY		IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO
	P	CORONATION GOLDEN ACCLAIM CINDERELLA SPUNGOLD CORSAIR YELLOW SNOWCREST	OMEGA YELLOW GALAXY	YEL. SCULPTURE SOUVENIR ESQUIRE SHANE ILLINI GOLDRIFT	GOLDTOP YEL. BEAUREGARD GOLDBERG YELLOW SHASTA YELLOW IGLOO HEYDAY
BRONZE & RED	S		OAK LEAF	VALENTINE CALVERT'S ORANGE	IND. BRONZE COPPER QUEEN
	P	CHRISTMAS STAR	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA CARDINAL	BEAUREGARD BR. PORTRAIT CLIMAX
PINK	S				IND. PINK ORCHID QUEEN
	P	PINK SNOWDROP DEBUTANTE	LEGEND DELMAR PROM SPLENDOR HI-FI	RHYTHM STACCATO BLUE SKIES	PORTRAIT PROFILE BONNIE

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — MARCH 6, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	OCT. 3	OCT. 24	OCT. 3 - DEC. 5 OCT. 3 - DEC. 12 OCT. 3 - DEC. 19 OCT. 3 - DEC. 26	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	OCT. 17	NOV. 7	OCT. 17 - DEC. 12 OCT. 17 - DEC. 19 OCT. 17 - DEC. 26	NO NO NO	12 WEEK 11 WEEK 10 WEEK
30-35°	OCT. 24	NOV. 14	OCT. 24 - DEC. 12 OCT. 24 - DEC. 19 OCT. 24 - DEC. 26	NO NO NO	12 WEEK 11 WEEK 10 WEEK
25-30°	OCT. 31	NOV. 21	OCT. 31 - DEC. 19 OCT. 31 - DEC. 26	NO NO	11 WEEK 10 WEEK

\* For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

	13 WEEK	12 WEEK	11 WEEK	10 WEEK
WHITE	S		MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH
	P	ICECAP ACCLAIM SNOWSTORM ILLINI ALBA YUKON SNOWCREST	CHAMP ILLINI GLACIER	WHITE TAFFETA SCULPTURE JUPITER SURFSIDE PARAMOUNT BELRAY
YELLOW	S		GOLDEN PEARSON	HARVESTER
	P	CORONATION GOLDEN ACCLAIM CINDERELLA SPUNGOLD CORSAIR YEL. SNOWCREST	ILLINI WAMPUM OMEGA YELLOW GALAXY	ETUDE SOUVENIR YELLOW TAFFETA YEL. SCULPTURE GOLD BALL SHANE ILLINI GOLDRIFT LOLLIPOP PIPPIN GOLDEN PARAMOUNT
BRONZE & RED	S		OAK LEAF	VALENTINE CALVERT'S ORANGE
	P		GALAXY HOLIDAY CRACKER JACK RED GALAXY	BR. JUBILATION THELMA BEAUREGARD SUPR. CARDINAL
PINK	S			IND. PINK ORCHID QUEEN
	P	PINK SNOWDROP DEBUTANTE	LEGEND DELMAR HERITAGE PROM SPLENDOR HI-FI	JUBILATION RHYTHM STACCATO BLUE SKIES

S—Standard

P—Pompon

# YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — MARCH 13, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	OCT. 10	OCT. 31	OCT. 10 - DEC. 12 OCT. 10 - DEC. 19 OCT. 10 - DEC. 26 OCT. 10 - JAN. 2	NO NO NO NO	13 WEEK 12 WEEK 11 WEEK 10 WEEK
35-40°	OCT. 24	NOV. 14	OCT. 24 - DEC. 19 OCT. 24 - DEC. 26 OCT. 24 - JAN. 2	NO NO NO	12 WEEK 11 WEEK 10 WEEK
30-35°	OCT. 31	NOV. 21	OCT. 31 - DEC. 26 OCT. 31 - JAN. 2	NO NO	11 WEEK 10 WEEK
25-30°	NOV. 14	DEC. 5	NOV. 14 - DEC. 26 NOV. 14 - JAN. 2	NO NO	11 WEEK 10 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

	13 WEEK	12 WEEK	11 WEEK	10 WEEK	
WHITE	S		MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH	
	P	ICECAP ACCLAIM SNOWSTORM ILLINI ALBA YUKON SNOWCREST	CHAMP ILLINI GLACIER	WHITE TAFFETA SCULPTURE JUPITER SURFSIDE PARAMOUNT BELRAY	SUPERTOP TIPTOP ICEBERG ILLINI IGLOO SHASTA STARDUST
YELLOW	S		GOLDEN PEARSON	HARVESTER	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO YEL. SHOESMITH
	P	CORONATION GOLDEN ACCLAIM CINDERELLA SPUNGOLD CORSAIR YEL. SNOWCREST	ILLINI WAMPUM OMEGA YELLOW GALAXY	ETUDE SOUVENIR YELLOW TAFFETA YEL. SCULPTURE GOLD BALL SHANE ILLINI GOLDRIFT LOLLIPOP PIPPIN GOLDEN PARAMOUNT	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY
BRONZE & RED	S		OAK LEAF	VALENTINE CALVERT'S ORANGE	IND. BRONZE COPPER QUEEN
	P		GALAXY HOLIDAY CRACKERJACK RED GALAXY	BR. JUBILATION THELMA BEAUREGARD SUPR. CARDINAL	BEAUREGARD BR. PORTRAIT
PINK	S				IND. PINK ORCHID QUEEN
	P	PINK SNOWDROP DEBUTANTE	LEGEND DELMAR HERITAGE PROM SPLENDOR HI-FI	JUBILATION RHYTHM STACCATO BLUE SKIES	PORTRAIT PROFILE BONNIE

S—Standard

P—Pompon

POT PLANT SCHEDULE

VARIETY SCHEDULE



## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — MARCH 20, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	OCT. 17	NOV. 7	OCT. 17 - DEC. 26 OCT. 17 - JAN. 2 OCT. 17 - JAN. 9	NO NO NO	12 WEEK 11 WEEK 10 WEEK
35-40°	OCT. 31	NOV. 21	OCT. 31 - JAN. 2 OCT. 31 - JAN. 9	NO NO	11 WEEK 10 WEEK
30-35°	NOV. 7	NOV. 28	NOV. 7 - JAN. 2 NOV. 7 - JAN. 9	NO NO	11 WEEK 10 WEEK
25-30°	NOV. 21	DEC. 12	NOV. 21 - JAN. 2 NOV. 21 - JAN. 9	NO NO	11 WEEK 10 WEEK

\* For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		12 WEEK	11 WEEK	10 WEEK	9 WEEK
WHITE	S		MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH	QUEEN'S LACE
	P	CHAMP ILLINI GLACIER	WHITE TAFFETA SCULPTURE JUPITER SURFSIDE PARAMOUNT BELRAY	SUPERTOP ICEBERG ILLINI IGLOO SHASTA STARDUST	
YELLOW	S	GOLDEN PEARSON	HARVESTER	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO YEL. SHOESMITH	LUYONA GOLD LACE YELLOW LACE
	P	ILLINI WAMPUM OMEGA YELLOW GALAXY	ETUDE SOUVENIR YELLOW TAFFETA GOLD BALL SHANE ILLINI GOLDRIFT LOLLIPOP PIPPIN GOLDEN PARAMOUNT	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY	
BRONZE & RED	S	OAK LEAF	VALENTINE CALVERT'S GOLD	IND. BRONZE COPPER QUEEN	MRS. PALMERO BRONZE PALMERO
	P	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BEAUREGARD SUPR. BR. JUBILATION THELMA RANGER CARDINAL	BEAUREGARD BR. PORTRAIT	
PINK	S			IND. PINK ORCHID QUEEN	
	P	LEGEND DELMAR HERITAGE PROM SPLENDOR HI-FI	JUBILATION RHYTHM STACCATO BLUE SKIES	PORTRAIT PROFILE BONNIE	

S—Standard

P—Pompon

# YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — MARCH 27, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	OCT. 31	NOV. 21	OCT. 31 - JAN. 9 OCT. 31 - JAN. 16	NO NO	11 WEEK 10 WEEK
35-40°	NOV. 7	NOV. 28	NOV. 7 - JAN. 9 NOV. 7 - JAN. 16	NO NO	11 WEEK 10 WEEK
30-35°	NOV. 21	DEC. 12	NOV. 21 - JAN. 9 NOV. 21 - JAN. 16	NO NO	11 WEEK 10 WEEK
25-30°	NOV. 28	DEC. 19	NOV. 28 - JAN. 16 NOV. 28 - JAN. 23 NOV. 28 - JAN. 30	NO NO NO	10 WEEK 9 WEEK 8 WEEK

\* For No Pinch Method: Plant and Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

		12 WEEK	11 WEEK	10 WEEK	9 WEEK
WHITE	S		MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH	QUEEN'S LACE
	P	CHAMP ILLINI GLACIER	WHITE TAFFETA SCULPTURE JUPITER SURFSIDE PARAMOUNT BELRAY	SUPERTOP ICEBERG ILLINI IGLOO SHASTA STARDUST	
YELLOW	S	GOLDEN PEARSON	HARVESTER	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO YEL. SHOESMITH	LUYONA GOLD LACE YELLOW LACE
	P	ILLINI WAMPUM OMEGA YELLOW GALAXY	ETUDE SOUVENIR YELLOW TAFFETA GOLD BALL SHANE ILLINI GOLDRIFT LOLLIPOP PIPPIN GOLDEN PARAMOUNT	GOLDTOP YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY	
BRONZE & RED	S	OAK LEAF	VALENTINE CALVERT'S GOLD	IND. BRONZE COPPER QUEEN	MRS. PALMERO BRONZE PALMERO
	P	GALAXY HOLIDAY CRACKERJACK RED GALAXY	BEAUREGARD SUPR. BR. JUBILATION THELMA RANGER CARDINAL	BEAUREGARD BR. PORTRAIT	
PINK	S			IND. PINK ORCHID QUEEN	
	P	LEGEND DELMAR HERITAGE PROM SPLENDOR HI-FI	JUBILATION RHYTHM STACCATO BLUE SKIES	PORTRAIT PROFILE BONNIE	

S—Standard

P—Pompon

POT PLANT SCHEDULE

VARIETY SCHEDULE

# YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — APRIL 3, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	NOV. 7	NOV. 28	NOV. 7 - JAN. 16 NOV. 7 - JAN. 23	NO NO	11 WEEK 10 WEEK
35-40°	NOV. 14	DEC. 5	NOV. 14 - JAN. 16 NOV. 14 - JAN. 23	NO NO	11 WEEK 10 WEEK
30-35°	NOV. 28	DEC. 19	NOV. 28 - JAN. 16 NOV. 28 - JAN. 23 NOV. 28 - JAN. 30	NO NO NO	11 WEEK 10 WEEK 9 WEEK
25-30°	DEC. 5	DEC. 26	DEC. 5 - JAN. 23 DEC. 5 - JAN. 30 DEC. 5 - FEB. 6	NO NO NO	10 WEEK 9 WEEK 8 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

## VARIETIES IN RESPONSE GROUPS

		11 WEEK	10 WEEK	9 WEEK
WHITE	S	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH	QUEEN'S LACE DONLOPE'S WH. SP.
	P	WHITE TAFFETA SCULPTURE ERMIN JUPITER SURFSIDE PARAMOUNT BELRAY	PING PONG SUPERTOP ICEBERG ILLINI IGLOO VISCOUNT SHASTA STARDUST	WHITE KEEPSAKE
YELLOW	S	HARVESTER	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO YEL. SHOESMITH	LUYONA GOLD LACE YELLOW LACE
	P	ETUDE SOUVENIR YELLOW SCULPTURE YELLOW TAFFETA GOLD BALL SHANE ILLINI GOLDRIFT LOLLIPOP PIPPIN GOLDEN PARAMOUNT	YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY	YELLOW KEEPSAKE
BRONZE & RED	S	VALENTINE CALVERT'S ORANGE	IND. BRONZE COPPER QUEEN	MRS. PALMERO BRONZE PALMERO
	P	BEAUREGARD SUPR. BR. JUBILATION THELMA RANGER CARDINAL	BEAUREGARD BR. PORTRAIT BR. DELIGHT CLIMAX	
PINK	S		IND. PINK ORCHID QUEEN	
	P	JUBILATION RHYTHM STACCATO BLUE SKIES CLEBRITY	DELIGHT PORTRAIT BONNIE PENNANT LINDA LOU	

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — APRIL 10, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	NOV. 14	DEC. 12	NOV. 14 - JAN. 23 NOV. 14 - JAN. 30 NOV. 14 - FEB. 6	MAR. 13 MAR. 20 MAR. 27	11 WEEK 10 WEEK 9 WEEK
35-40°	NOV. 28	DEC. 26	NOV. 28 - JAN. 23 NOV. 28 - JAN. 30 NOV. 28 - FEB. 6	MAR. 13 MAR. 20 MAR. 27	11 WEEK 10 WEEK 9 WEEK
30-35°	DEC. 5	JAN. 2	DEC. 5 - JAN. 30 DEC. 5 - FEB. 6 DEC. 5 - FEB. 13	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK
25-30°	DEC. 19	JAN. 9	DEC. 19 - JAN. 30 DEC. 19 - FEB. 6 DEC. 19 - FEB. 13	MAR. 20 NO NO	10 WEEK 9 WEEK 8 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		11 WEEK	10 WEEK	9 WEEK
WHITE	S	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH	QUEEN'S LACE DONLOPE'S WH. SP.
	P	WHITE TAFFETA SCULPTURE ERMINE JUPITER SURFSIDE PARAMOUNT BELRAY	PING PONG SUPERTOP ICEBERG ILLINI IGLOO VISCOUNT SHASTA STARDUST	WHITE KEEPSAKE
YELLOW	S	HARVESTER	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO YEL. SHOESMITH	LUYONA GOLD LACE YELLOW LACE
	P	ETUDE SOUVENIR YELLOW SCULPTURE YELLOW TAFFETA GOLD BALL SHANE ILLINI GOLDRIFT LOLLIPOP PIPPIN GOLDEN PARAMOUNT	YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY	YELLOW KEEPSAKE
BRONZE & RED	S	VALENTINE CALVERT'S ORANGE	IND. BRONZE COPPER QUEEN	MRS. PALMERO BRONZE PALMERO
	P	BEAUREGARD SUPR. BR. JUBILATION THELMA RANGER CARDINAL	BEAUREGARD BR. PORTRAIT BR. DELIGHT CLIMAX	
PINK	S		IND. PINK ORCHID QUEEN	
	P	JUBILATION RHYTHM STACCATO BLUE SKIES CELEBRITY	DELIGHT PORTRAIT BONNIE PENNANT LINDA LOU	

S—Standard

P—Pompon



## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM—APRIL 17, 1967

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	NOV. 21	DEC. 19	NOV. 21 - JAN. 30 NOV. 21 - FEB. 6 NOV. 21 - FEB. 13	MAR. 13 MAR. 20 MAR. 27	11 WEEK 10 WEEK 9 WEEK
35-40°	DEC. 5	JAN. 2	DEC. 5 - JAN. 30 DEC. 5 - FEB. 6 DEC. 5 - FEB. 13	MAR. 13 MAR. 20 MAR. 27	11 WEEK 10 WEEK 9 WEEK
30-35°	DEC. 12	JAN. 9	DEC. 12 - FEB. 6 DEC. 12 - FEB. 13 DEC. 12 - FEB. 20	MAR. 20 MAR. 27 NO	10 WEEK 9 WEEK 8 WEEK
25-30°	DEC. 26	JAN. 16	DEC. 26 - FEB. 6 DEC. 26 - FEB. 13 DEC. 26 - FEB. 20	MAR. 20 MAR. 27 NO	10 WEEK 9 WEEK 8 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		11 WEEK	10 WEEK	9 WEEK
WHITE	S	MARKETEER	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH	QUEEN'S LACE DONLOPE'S WH. SP.
	P	WHITE TAFFETA SCULPTURE ERMINE JUPITER SURFSIDE PARAMOUNT BELRAY	PING PONG SUPERTOP VISCOUNT ICEBERG ILLINI IGLOO SHASTA STARDUST	WHITE KEEPSAKE
YELLOW	S	HARVESTER	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO YEL. SHOESMITH	LUYONA GOLD LACE YELLOW LACE
	P	ETUDE SOUVENIR YELLOW SCULPTURE YELLOW TAFFETA GOLD BALL SHANE ILLINI GOLDRIFT LOLLIPOP PIPPIN GOLDEN PARAMOUNT	YEL. BEAUREGARD GOLDBERG GOLDEN SHASTA YELLOW IGLOO HEYDAY	YELLOW KEEPSAKE
BRONZE & RED	S	VALENTINE CALVERT'S ORANGE	IND. BRONZE COPPER QUEEN	MRS. PALMERO BRONZE PALMERO
	P	BEAUREGARD SUPR. BR. JUBILATION THELMA RANGER CARDINAL	BEAUREGARD BR. PORTRAIT BR. DELIGHT CLIMAX	
PINK	S		IND. PINK ORCHID QUEEN	
	P	JUBILATION RHYTHM STACCATO BLUE SKIES CELEBRITY	DELIGHT PORTRAIT BONNIE PENNANT LINDA LOU	

S—Standard

P—Pompon

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

BLOOM — APRIL 24, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	DEC. 5	JAN. 2	DEC. 5 - FEB. 13 DEC. 5 - FEB. 20 DEC. 5 - FEB. 27	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK
35-40°	DEC. 12	JAN. 9	DEC. 12 - FEB. 13 DEC. 12 - FEB. 20 DEC. 12 - FEB. 27	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK
30-35°	DEC. 19	JAN. 16	DEC. 19 - FEB. 13 DEC. 19 - FEB. 20 DEC. 19 - FEB. 27	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK
25-30°	JAN. 2	JAN. 23	JAN. 2 - FEB. 13 JAN. 2 - FEB. 20 JAN. 2 - FEB. 27	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		10 WEEK	9 WEEK	8 WEEK
WHITE	S	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH	QUEEN'S LACE WH. MARY GARDEN DONLOPE'S WH. SP.	WH. PINK CHIEF SILVER SHEEN
	P	PING PONG SUPERTOP ICEBERG WHITE PENNANT DAWN STAR ILLINI IGLOO VISCOUNT SHASTA STARDUST ILLINI SNOWDRIFT	SILVERTONE WHITE KEEPSAKE PINOCCHIO MEMENTO HALO ALASKA THISTLEDOWN	ECHO BLIZZARD PRISTINE
YELLOW	S	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO YEL. SHOESMITH	LUYONA GOLD LACE GOLDEN BOY	BLAZING GOLD
	P	GOLDTOP AZTEC GOLDEN BANTAM YEL. BEAUREGARD GOLDBERG SUNFIRE GOLDEN SHASTA YELLOW IGLOO HEYDAY YEL. ILL. SNOWDRIFT FANFARE	YELLOW KEEPSAKE STARLIGHT GOLDEN HERALD GOLD COAST HAPPINESS SUNUP SAUTERNE FLAIR DANDY STATESMAN BRILLIANCE YELLOWCHIP	YELLOW CALUMET TOPFLIGHT
BRONZE & RED	S	DK. IND. BRONZE NOMAGO COPPER QUEEN	MRS. PALMERO BRONZE PALMERO	MAYFORD TITAN
	P	BRONZE DELIGHT BEAUREGARD WIZARD CLIMAX AMBERHUE	RESOLUTE GAITY SYBIL BUCKSKIN PEACHCHIP	CALUMET DARK CALUMET RED ENTERPRISE PARADISE
PINK	S	IND. PINK DK. ORCHID QUEEN PINK F. SHOES'TH	BUNBU MARY GARDEN MISS AMERICA	PINK CHIEF
	P	DELIGHT PORTRAIT BONNIE PENNANT CHEERFUL	PINKETTE REWARD BLUECHIP TEMPO	ENTERPRISE ACCOLADE MIRTH

S—Standard

P—Pompon

POT PLANT SCHEDULE

VARIETY SCHEDULE

## YEAR-ROUND CHRYSANTHEMUM FLOWERING SCHEDULE

### BLOOM — MAY 1, 1961

LATITUDE	PLANT	PINCH*	LIGHTING PERIOD	START SHADE	RESPONSE GROUP
40-50°	DEC. 12	JAN. 9	DEC. 12 - FEB. 20 DEC. 12 - FEB. 27 DEC. 12 - MAR. 6	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK
35-40°	DEC. 19	JAN. 16	DEC. 19 - FEB. 20 DEC. 19 - FEB. 27 DEC. 19 - MAR. 6	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK
25-35°	JAN. 9	JAN. 30	JAN. 9 - FEB. 20 JAN. 9 - FEB. 27 JAN. 9 - MAR. 6	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK

### BLOOM—MAY 8, 1961

40-50°	DEC. 26	JAN. 23	DEC. 26 - FEB. 27 DEC. 26 - MAR. 6 DEC. 26 - MAR. 13	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK
35-40°	JAN. 2	JAN. 30	JAN. 2 - FEB. 27 JAN. 2 - MAR. 6 JAN. 2 - MAR. 13	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK
25-35°	JAN. 16	FEB. 6	JAN. 16 - FEB. 27 JAN. 16 - MAR. 6 JAN. 16 - MAR. 13	MAR. 20 MAR. 27 APR. 3	10 WEEK 9 WEEK 8 WEEK

\*For No Pinch Method: Plant and Light on Pinch Date

### VARIETIES IN RESPONSE GROUPS

		10 WEEK	9 WEEK	8 WEEK
WHITE	S	IMP. IND. WHITE IND. NO. 3 WHITE CRYSTAL QUEEN MEFO FRED SHOESMITH	QUEEN'S LACE WH. MARY GARDEN DONLOPE'S WH. SP.	WH. PINK CHIEF SILVER SHEEN
	P	PING PONG SUPERTOP ICEBERG WHITE PENNANT DAWN STAR ILLINI IGLOO VISCOUNT SHASTA STARDUST ILLINI SNOWDRIFT	SILVERTONE WHITE KEEPSAKE PINOCCHIO MEMENTO HALO ALASKA THISTLEDOWN	ECHO BLIZZARD PRISTINE
YELLOW	S	IMP. IND. YELLOW EXPLORER YELLOW QUEEN YELLOW MEFO CREAM MEFO YEL. SHOESMITH	LUYONA GOLD LACE GOLDEN BOY	BLAZING GOLD
	P	GOLDTOP AZTEC GOLDEN BANTAM YEL. BEAUREGARD GOLDBERG SUNFIRE GOLDEN SHASTA YELLOW IGLOO HEYDAY YEL. ILL. SNOWDRIFT FANFARE	YELLOW KEEPSAKE STARLIGHT GOLDEN HERALD GOLD COAST HAPPINESS SUNUP SAUTERNE FLAIR DANDY STATESMAN BRILLIANCE YELLOWCHIP	YELLOW CALUMET TOPFLIGHT
BRONZE & RED	S	DK. IND. BRONZE NOMAGO COPPER QUEEN	MRS. PALMERO BRONZE PALMERO	MAYFORD TITAN
	P	BRONZE DELIGHT BEAUREGARD WIZARD CLIMAX AMBERHUE	RESOLUTE GAITY SYBIL BUCKSKIN PEACHCHIP	CALUMET DARK CALUMET RED ENTERPRISE PARADISE
PINK	S	IND. PINK DK. ORCHID QUEEN PINK F. SHOES'TH	BUNBU MARY GARDEN MISS AMERICA	PINK CHIEF
	P	DELIGHT PORTRAIT BONNIE PENNANT CHEERFUL	PINKETTE REWARD BLUECHIP TEMPO	ENTERPRISE ACCOLADE MIRTH

S—Standard

P—Pompon

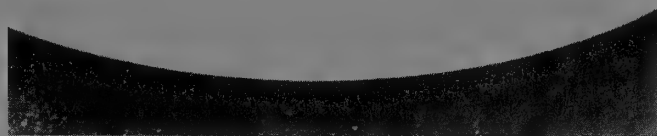
## CHRYSANTHEMUM POT PLANT CULTURE

### SOIL

A good fibrous silt loam direct from the field, to which one-third to one-half of well rotted manure or German peat has been added, plus an application of superphosphate or a low nitrogen, complete fertilizer will give excellent results. In areas where such soil is not available a heavier soil may be improved by additions of sand or perlite to the soil. Since perlite holds large quantities of air, and moisture, a little experimentation will usually show the correct mixture. Remember there is no fertilizer program



WELL PREPARED SOIL MIXTURE



PRINCESS ANNE

available that can produce vigorous growth and the desirable dark green luster on the foliage if the soil does not provide sufficient aeration. Some growers are getting quicker root action by using a top dressing of one-half inch of German peat over their regular soil mixture in each pot and planting through this mulch. It saves on watering and assists in producing more breaks after pinching.

In many areas peanut hulls, sawdust or wood shavings are excellent alternate sources of organic matter. Additional nitrogen feeding is necessary at the beginning of the crop.

### PLANTING AND PINCHING

Plants should always be set in soil that has been uniformly moistened, either by sterilization or natural wetting. Some growers prepare pots a day ahead to assure the correct level of moisture in each pot prior to planting. After planting, water thoroughly to set the soil around the roots. The additions of peat and perlite to the original soil will improve water retention and help eliminate extreme fluctuations in moisture supply. Chrysanthemum plants can be overwatered as easily as poinsettia plants. Overwatering results in the death of roots and the yellowing of foliage. The variety of Oregon is used by some growers as an indicator, since it shows these symptoms quickly. In order to assure adequate moisture and humidity prior to pinching and during the lighting period, many growers place cuttings under intermittent mist after potting. This eliminates initial watering and assists in developing more and stronger breaks. With this system no supplemental shading is necessary on young plants.



## CHRYSANTHEMUM POT PLANT CULTURE

For best results grow all potted chrysanthemums under glass. Do not shade the glass any more than necessary. Usually a light shade is necessary in mid-summer and particularly on plants approaching the



AMPLE SPACE BETWEEN POTS IS NECESSARY

finishing stages. Shade on the glass is usually for the comfort of the grower, rather than for the requirements of the plants. Maintain humidity in the house by wetting down benches and walks.

### FERTILIZING

The foliage should retain a bright green luster throughout the life of the plants. The lower leaves should never be allowed to become pale green as a result of low fertility. A strong, well-grown pot plant is a well-fed plant. Pot plants should be fed more frequently than those grown in a bench, as constant leaching lowers the nutrient level in pots faster than in bench culture.

Liquid fertilizers are very effective. Constant fertilization by means of injecting small quantities of fertilizer into the water line has eliminated the tendency to fluctuate the quantities of fertilizer available to the plant. Fertilizing every time the plants are watered with a **Fert-O-Ject** has proved to be a reliable method of maintaining desirable fertility levels. Tests at Ohio State University confirmed this. The most desirable growth was secured when plants were fertilized with 1 ounce of 20-20-20 to 15 gal-



SOFT PINCHING  
INCREASES NUMBER  
OF BREAKS



REMOVING JUST THE GROWING TIP



SCISSORS ARE IDEAL FOR  
SOFT PINCHING

## THE CHRYSANTHEMUM POT PLANT CULTURE

lons of water each time they were watered. With this system young cuttings may be watered-in with the same solution as that used on older, established plants.

When an injection system is not available, regular weekly feedings with liquid fertilizer are recommended. The last fertilizing is as important as the first one. In many cases pot mums not having correct fertility at finishing time lack keeping quality. This is especially true if the pot has not had adequate fertility levels maintained during the growing period.

### TEMPERATURE

The optimum night temperature is 65 degrees F. Day temperatures should be 75 to 85 degrees F. when the light intensity is high and 70 degrees F. on cloudy days. Heat delay occurs when night temperatures reach 90 degrees or higher. This condition is similar to the check that results when plants are removed from the short-day treatment too early, when black cloth treatment is missed too often, or when old shading cloth is used.

Some of the delay may be overcome by placing black cloth over the plants with as much headroom as possible to increase air movement under the cloth. Ground beds with cloth placed 6 feet above pots is satisfactory. The only positive method to overcome this heat check is to install air conditioning to lower the temperatures. Where this is not possible, variety selection is extremely important.

Growing the crop at less than 65 degrees F. night temperature results in uneven and delayed flowering. A gradual temperature drop to 55 degrees F. after buds show color is recommended for most colored varieties.

Extreme fluctuation of night temperatures above 65 degrees F., and below 54 degrees F. will retard flowering especially in the later stages of bud development.

### SHADING AND DISBUDDING

Use the same procedure as for cut flowers. Black cloth treatment should continue until disbudding.



**LIGHTING UNDER BLACK CLOTH  
IS SAFE AND LABOR-SAVING**

For medium-height varieties pinching is done the same day that short-day treatment is started. However, if plants are too tall, delay the pinch 10 to 14 days after the start of short days.

The time of disbudding pot mums must be stressed. Late disbudding produces a shock to the plant that can affect flower size, timing and color. Several days delay in disbudding is equal to more than several days delay in flowering during high temperature periods of the year. Generally it is necessary to make two passes at disbudding; the first is made as soon as the terminal bud cluster has opened enough to permit side-bud removal without injury to the terminal bud. The second disbudding removes any lateral shoots that are stimulated into growth after removal of the first set of side buds. The commonly used garden varieties are not disbudded when they are used for Easter and Mothers' Day pots since the flower size is not large enough to make a show, and the beauty lies in the number of flowers contained on the bushy plants.

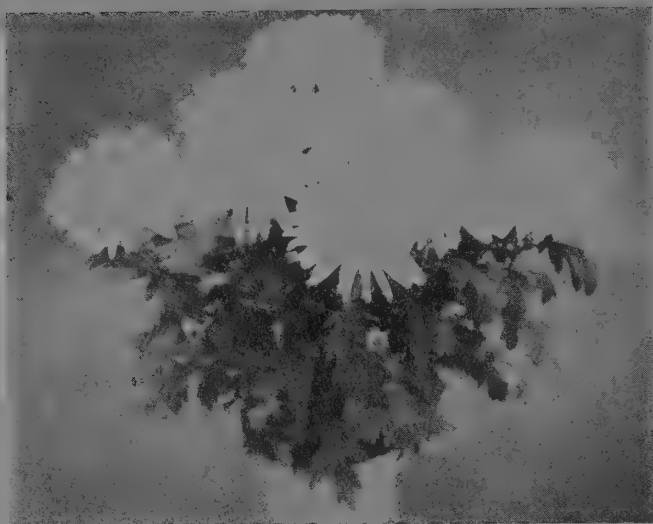
### PLANTING AND PINCHING

Planting only those cuttings directly into the pots which have been graded for height and stem diameter

## CHRYSANTHEMUM POT PLANT CULTURE

is the beginning of top quality pots. Uneven growth resulting from differences in cuttings within a pot is not easily corrected in the later stages of growing. Deep planting results in greater susceptibility to *Rhizoctonia* and *Pythium*. Uneven planting depths among cuttings within a pot also will produce uneven growth responses within the same pot. It is better to plant cuttings in a circle around the pot rather than the four with one in the center. Planting cuttings on an angle generally increases the number of breaks that develop from the initial pinch. Failure to achieve the proper number of strong breaks from the first pinch often can be traced to pinching plants which were not vigorously growing at time of that pinch. Frequently the clue to this trouble is the number of plants that require an additional pinch because the first pinch simply removed a portion of the leaf rather than the entire growing tip. If active growth does not occur, and the schedule calls for a pinch, it would be better to delay the pinch, until the plant has made sufficient new growth. The slight delay in flowering time is insignificant compared to the reduction in quality that results from improper pinching.

Hard pinches on actively growing plants often reduces the number of breaks. No more than 1/2 inch



ICE FOLLIES

of stem tip should be removed from the plant when pinching, and best results occur when the tip is simply "rolled out." The pinch should be made only on growth that has occurred in your greenhouse. The accompanying photographs illustrate this technique.

The use of intermittent mist on plants in the early stages helps to establish cuttings rapidly, and breaking action is improved.

### SINGLE STEM METHOD

Plant 7 or 8 cuttings per 6-inch pot or 10 cuttings per 8-inch pot making sure they are uniformly graded prior to planting. Do not pinch. This permits a saving of one to three weeks growing time over the pinch method. Disbud to one bud per plant as early as possible. Total growing time is approximately equal to response classification of the variety. One advantage of the single-stem method crop is the increase of one more crop per year over the pinched crop system. Blooms will be very large and the stems will be much stronger than with pinched plants. Varieties recommended for single stem culture are: Malou, Mrs. Wolfe, Princess Anne, Clipper, Loubens, Cossack, Red Star, Vulcan and Perle Angevine.

### SINGLE PINCH METHOD

Considered the standard method, this system produces a mass of flowers on stocky plants. Plant 5 or 6 rooted cuttings per 6-inch pot. Roll-pinch the plants in the soft growth according to the schedule found in the year-round program.

### TIMING PINCH AND SHORT DAYS

In most localities the desirable height of the finished pot is between 17 to 20 inches overall. In order to achieve this height it is necessary to vary the pinch in relation to the beginning of short days according to each variety. All varieties are classed by their natural growing habits.

**TALL GROWING VARIETIES** (varieties naturally flowering on stems 15 inches and over after short days have been applied.

## CHRYSANTHEMUM POT PLANT CULTURE

**Treatment:** Short days applied 10 to 14 days prior to pinching to reduce height. (Example: Snow Crystal)

**MEDIUM GROWING VARIETIES** (varieties which naturally flower on stems no longer than 15 inches after short days have been applied).

**Treatment:** Short days applied the date of pinching to maintain natural height. (Example: Bonnaffon Deluxe)

**SHORT GROWING VARIETIES** (varieties which naturally flower on stems under 15 inches after short days have been applied).

**Treatment:** Short days applied after 7 to 14 long days following pinch have occurred to promote the additional stem growth needed. (Example: Delaware)

The year around schedule in this manual takes the above into consideration so that all plants should finish at approximately the same height. Seasonal variations occur—check with your Gloeckner representative before scheduling your program.

### TWO-PINCH METHOD

The most common method a few years ago and still used some for natural bloom, especially where larger plants are wanted. Plant 4 cuttings per 6-inch pots; 5 per 7-inch, or 7 in 8-inch pots. Pinch plants the first time 14 days after planting and wait 21 days and pinch the second time. Short-day treatment should start at the time of the second pinch.

### SOME COMMON ERRORS

**1. GROWING UNDER TOO MUCH SHADE OR CROWDING PLANTS.** During low light intensity periods of the year a minimum of  $1\frac{1}{3}$  square feet per 6-inch pot is required to finish a quality pot. Some larger growing varieties require more space. Crowding results in spindlier plants, increased susceptibility to foliage and flower diseases, reduction in keeping quality, and yellowing and loss of lower foliage.



PENINSULA-TYPE BENCHES OFFER MANY ADVANTAGES

Excessive shading from dirty glass or too much shading compound will produce similar results. Crowding or excessive shading produces a carbohydrate-deficient plant. **DON'T CROWD POT MUMS!**

### 2. Loss of Root System:

The early loss of roots often causes a severe check resulting in the production of sub-standard pot mums. Frequently the check is not uniform within a pot causing the pot to be noticeably uneven. This is especially true if the loss is caused by excess fertilizer applications.

#### (a) By Excess Fertilizers

When excessively high soluble salt concentrations build up in the pots, both leaves and roots can be injured. Leaf margin burning is an expression of this damage.

Next to crowding, more pots are reduced in quality from excess fertilizer applications than any other cause.



## PLANT CULTURE



GOOD ROOTS RESULT FROM  
CORRECT WATERING AND  
FEEDING PRACTICES

### (b) By Overwatering

Overwatering usually resulting from lack of proper drainage can cause loss of roots. Plunged pots are

more easily overwatered than non-plunged and for that reason the bench on which plunging is being done should have excellent drainage.

### 3. Failure to disbud promptly:

Varieties differ in their response to late disbudding but generally the results are late flowering, color loss, and in some cases, ragged foliage resulting from injury incurred during disbudding procedure. Late disbudding on single-stem crops can contribute to undesirable height of finished plants and marked reductions in flower size and color.

### 4. Root pruning resulting in loss of keeping quality:

This type of injury most often occurs where plants are grown plunged until flowering and have not been turned regularly to maintain a root system within the pot. Plants that have been root-pruned are not able to maintain proper internal moisture relationship even when the soil is wet. Frequently the buyer of such plants will complain of short life and the necessity of watering too often. Root-pruned plants will become nitrogen deficient very rapidly which also contributes to the lowering of general appearance and keeping quality of the pot.



BLACK-CLOTHING AN ENTIRE  
HOUSE IN ONE OPERATION



## CHRYSANTHEMUM POT PLANT CULTURE

### Garden Mum Pot Plants for Mother's Day

Garden mum plants in full bloom make ideal potted plants for Mother's Day. This should be a valuable addition to the list of spring pot plants. For best results, 5 cuttings should be planted in a 6-inch pot or 2 cuttings in a 4-inch pot. After these pot plants are through flowering, they should be cut back to within

3 inches of the soil level and planted into the garden. These same plants will bloom again in the fall.

Many growers have greatly increased their sale of garden chrysanthemums by having collections in bloom during the spring season. Cuttings are planted one to a 3-inch or 3½-inch pot using the procedure outlined below for Single-Pinch Method.

### SINGLE — PINCH METHOD\*

	BLOOM	PLANT	LIGHTING PERIOD	PINCH	SHADE
EASTER	(APRIL 17)	FEBRUARY 8	FEB. 8 - FEB. 15	FEB. 15	NO
MOTHER'S DAY	(MAY 8)	FEBRUARY 29	FEB. 29 - MAR. 7	MAR. 7	APR. 4
MEMORIAL DAY	(MAY 30)	MARCH 21	MAR. 21 - MAR. 28	MAR. 28	APR. 4

\* For double-pinch method plant five weeks earlier and give first pinch seven days after planting. The second pinch should be made on the pinch date given in the single-pinch method. Be sure to light from the date of planting until date of second pinch.

### VARIETIES:

#### WHITE

CHRIS COLUMBUS  
OSTOSA  
BENORA  
MAESTRO  
LARRY  
GARDENIA  
JESSAMINE WILLIAMS  
JOAN-ETTE  
GLORIA  
GARDENIA

#### YELLOW

YELLOW CHRIS COLUMBUS  
MOONLIGHT  
ASTORIA  
BLAZING GOLD  
KINGS RANSOM  
YELLOW SPOON  
GAY BLADE  
ETHEL WATERS

#### BRONZE & RED

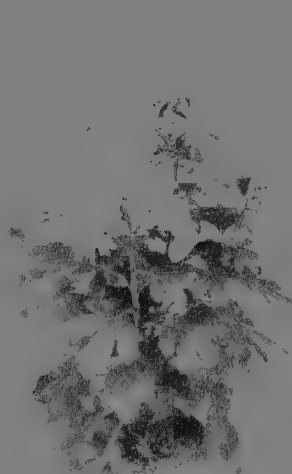
W. P. SNYDER  
AGLOW  
DOLLI-ETTE  
TORONTO  
LIPSTICK  
RADIANCE  
LEE-ETTE  
MAJESTIC  
MINNIHAHA  
MESABI  
RED MISCHIEF  
CHEYENNE  
CAPRICE  
ZEST

#### PINK

SPELLBOUND  
MISCHIEF  
JOYBRINGER  
ALERT  
FUCHSIA FAIRY  
CUPID  
CANDYTUFT  
RASPBERRY ICE  
MINNIPINK  
PURPLE WATERS  
CECELIA  
ROYAL-ETTE



LEE-ETTE—3-INCH POT



DOLLI-ETTE—3-INCH POT

POT PLANT SCHEDULE

Bloom  
JAN. 2  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	OCT. 3	OCT. 3 - OCT. 17	OCT. 17	NO
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	OCT. 3	OCT. 3 - OCT. 24	OCT. 17	NO
S VALENTINE S VENOYA	OCT. 10	OCT. 10 - OCT. 17	OCT. 24	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S PERSONALITY	OCT. 10	OCT. 10 - OCT. 24	OCT. 24	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE	OCT. 17	OCT. 17 - OCT. 24	OCT. 31	NO
S LUNA S SNOWCLAD S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BRIDESMAID S QUEEN OF PINKS	OCT. 17	OCT. 17 - OCT. 31	OCT. 31	NO

Bloom  
JAN. 9  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	OCT. 10	OCT. 10 - OCT. 24	OCT. 24	NO
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	OCT. 10	OCT. 10 - OCT. 31	OCT. 24	NO
S VALENTINE S VENOYA	OCT. 17	OCT. 17 - OCT. 24	OCT. 31	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S PERSONALITY	OCT. 17	OCT. 17 - OCT. 31	OCT. 31	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE	OCT. 24	OCT. 24 - OCT. 31	NOV. 7	NO
S LUNA S SNOWCLAD S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BRIDESMAID S QUEEN OF PINKS	OCT. 24	OCT. 24 - NOV. 7	NOV. 7	NO

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## YEAR-ROUND POT PLANT SCHEDULE

Bloom  
JAN. 16  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	OCT. 17	OCT. 17 - OCT. 31	OCT. 31	NO
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	OCT. 17	OCT. 17 - NOV. 7	OCT. 31	NO
S VALENTINE S VENOYA	OCT. 24	OCT. 24 - OCT. 31	NOV. 7	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S PERSONALITY	OCT. 24	OCT. 24 - NOV. 7	NOV. 7	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE	OCT. 31	OCT. 31 - NOV. 7	NOV. 14	NO
S LUNA S SNOWCLAD S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BRIDESMAID S QUEEN OF PINKS	OCT. 31	OCT. 31 - NOV. 14	NOV. 14	NO

Bloom  
JAN. 23  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	OCT. 24	OCT. 24 - NOV. 7	NOV. 7	NO
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	OCT. 24	OCT. 24 - NOV. 14	NOV. 7	NO
S VALENTINE S VENOYA	OCT. 31	OCT. 31 - NOV. 7	NOV. 14	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S PERSONALITY	OCT. 31	OCT. 31 - NOV. 14	NOV. 14	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE	NOV. 7	NOV. 7 - NOV. 14	NOV. 21	NO
S LUNA S SNOWCLAD S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BRIDESMAID S QUEEN OF PINKS	NOV. 7	NOV. 7 - NOV. 21	NOV. 21	NO

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## YEAR-ROUND POT PLANT SCHEDULE

Bloom  
JAN. 30  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	OCT. 31	OCT. 31 - NOV. 14	NOV. 14	NO
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	OCT. 31	OCT. 31 - NOV. 21	NOV. 14	NO
S VALENTINE S VENOYA	NOV. 7	NOV. 7 - NOV. 14	NOV. 21	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S PERSONALITY	NOV. 7	NOV. 7 - NOV. 21	NOV. 21	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE	NOV. 14	NOV. 14 - NOV. 21	NOV. 28	NO
S LUNA S SNOWCLAD S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BRIDESMAID S QUEEN OF PINKS	NOV. 14	NOV. 14 - NOV. 28	NOV. 28	NO

Bloom  
FEB. 6  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	NOV. 7	NOV. 7 - NOV. 21	NOV. 21	NO
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	NOV. 7	NOV. 7 - NOV. 28	NOV. 21	NO
S VALENTINE S VENOYA	NOV. 14	NOV. 14 - NOV. 21	NOV. 28	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S PERSONALITY	NOV. 14	NOV. 14 - NOV. 28	NOV. 28	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE	NOV. 21	NOV. 21 - NOV. 28	DEC. 5	NO
S LUNA S SNOWCLAD S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BRIDESMAID S QUEEN OF PINKS	NOV. 21	NOV. 21 - DEC. 5	DEC. 5	NO

S — For Single Stem Pots — Plant and Shade on Pinch Dates



## YEAR-ROUND POT PLANT SCHEDULE

Bloom  
FEB. 13  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE				
S CLIPPER CHARM	NOV. 14	NOV. 14 - NOV. 28	NOV. 28	NO
S OREGON				
S OREGON TRAIL				
YELLOW DELAWARE	NOV. 14	NOV. 14 - DEC. 5	NOV. 28	NO
DELAWARE				
MERMAID				
S VALENTINE VENOYA	NOV. 21	NOV. 21 - NOV. 28	DEC. 5	NO
CHALK CLIFF				
S RED STAR				
CRITERION	NOV. 21	NOV. 21 - DEC. 5	DEC. 5	NO
WHITERION				
PERSONALITY				
ICE FOLLIES				
LITTLE AMERICA				
QUEEN'S LACE				
SNOW CRYSTAL				
S IND. VARIETIES				
GOLD LACE	NOV. 28	NOV. 28 - DEC. 5	DEC. 12	NO
YELLOW CRYSTAL				
S YELLOW PRINCESS ANNE				
S VULCAN				
S WOKING SCARLET				
S PINK DELUXE				
S PRINCESS ANNE				
LUNA				
SNOWCLAD				
SUNDIAL				
S BRONZE PALMERO	NOV. 28	NOV. 28 - DEC. 12	DEC. 12	NO
S MRS. PALMERO				
BRIDESMAID				
QUEEN OF PINKS				

Bloom  
FEB. 20  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE				
S CLIPPER CHARM	NOV. 21	NOV. 21 - DEC. 5	DEC. 5	NO
S OREGON				
S OREGON TRAIL				
YELLOW DELAWARE	NOV. 21	NOV. 21 - DEC. 12	DEC. 5	NO
DELAWARE				
MERMAID				
S VALENTINE VENOYA	NOV. 28	NOV. 28 - DEC. 5	DEC. 12	NO
CHALK CLIFF				
S RED STAR				
CRITERION	NOV. 28	NOV. 28 - DEC. 12	DEC. 12	NO
WHITERION				
PERSONALITY				
ICE FOLLIES				
LITTLE AMERICA				
QUEEN'S LACE				
SNOW CRYSTAL				
S IND. VARIETIES				
GOLD LACE	DEC. 5	DEC. 5 - DEC. 12	DEC. 19	NO
YELLOW CRYSTAL				
S YELLOW PRINCESS ANNE				
S VULCAN				
S WOKING SCARLET				
S PINK DELUXE				
S PRINCESS ANNE				
LUNA				
SNOWCLAD				
SUNDIAL				
S BRONZE PALMERO	DEC. 5	DEC. 5 - DEC. 19	DEC. 19	NO
S MRS. PALMERO				
BRIDESMAID				
QUEEN OF PINKS				

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## YEAR-ROUND POT PLANT SCHEDULE

**Bloom  
FEB. 27  
1961**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	NOV. 28	NOV. 28 - DEC. 12	DEC. 12	NO
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	NOV. 28	NOV. 28 - DEC. 19	DEC. 12	NO
S VALENTINE S VENOYA	DEC. 5	DEC. 5 - DEC. 12	DEC. 19	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S PERSONALITY	DEC. 5	DEC. 5 - DEC. 19	DEC. 19	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE	DEC. 12	DEC. 12 - DEC. 19	DEC. 26	NO
S LUNA S SNOWCLAD S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BRIDESMAID S QUEEN OF PINKS	DEC. 12	DEC. 12 - DEC. 26	DEC. 26	NO

**Bloom  
MAR. 6  
1961**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	DEC. 5	DEC. 5 - DEC. 19	DEC. 19	NO
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	DEC. 5	DEC. 5 - DEC. 26	DEC. 19	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S HUMDINGER S LOUBENS S PERSONALITY	DEC. 12	DEC. 12 - DEC. 26	DEC. 26	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE S PORTRAIT VARIETIES	DEC. 19	DEC. 19 - DEC. 26	JAN. 2	NO
S LUNA S MONTY S QUICKSILVER S MRS. WOLFE S SNOWCLAD S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BLUE RIBBON S BRIDESMAID S QUEEN OF PINKS	DEC. 19	DEC. 19 - JAN. 2	JAN. 2	NO

S — For Single Stem Pots — Plant and Shade on Pinch Dates

YEAR-ROUND POT PLANT SCHEDULE

**Bloom**  
**MAR. 13**  
**1961**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE				
S CLIPPER	DEC. 12	DEC. 12 - DEC. 26	DEC. 26	NO
S CHARM				
S OREGON				
S OREGON TRAIL				
S YELLOW DELAWARE	DEC. 12	DEC. 12 - JAN. 2	DEC. 26	NO
S DELAWARE				
S MERMAID				
S CHALK CLIFF				
S RED STAR				
S CRITERION				
S WHITERION	DEC. 19	DEC. 19 - JAN. 2	JAN. 2	NO
S HUMDINGER				
S LOUBENS				
S PERSONALITY				
S ICE FOLLIES				
S LITTLE AMERICA				
S QUEEN'S LACE				
S SNOW CRYSTAL				
S IND. VARIETIES				
S GOLD LACE				
S YELLOW CRYSTAL	DEC. 26	DEC. 26 - JAN. 2	JAN. 9	NO
S YELLOW PRINCESS ANNE				
S VULCAN				
S WOKING SCARLET				
S PINK DELUXE				
S PRINCESS ANNE				
S PORTRAIT VARIETIES				
S LUNA				
S MONTY				
S QUICKSILVER				
S SNOWCLAD				
S MRS. WOLFE	DEC. 26	DEC. 26 - JAN. 9	JAN. 9	NO
S SUNDIAL				
S BRONZE PALMERO				
S MRS. PALMERO				
S BLUE RIBBON				
S BRIDESMAID				
S QUEEN OF PINKS				

**Bloom**  
**MAR. 20**  
**1961**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE				
S CLIPPER	DEC. 19	DEC. 19 - JAN. 2	JAN. 2	NO
S CHARM				
S OREGON				
S OREGON TRAIL				
S YELLOW DELAWARE	DEC. 19	DEC. 19 - JAN. 9	JAN. 2	NO
S DELAWARE				
S MERMAID				
S CHALK CLIFF				
S RED STAR				
S CRITERION				
S WHITERION	DEC. 26	DEC. 26 - JAN. 9	JAN. 9	NO
S HUMDINGER				
S LOUBENS				
S PERSONALITY				
S ICE FOLLIES				
S LITTLE AMERICA				
S QUEEN'S LACE				
S SNOW CRYSTAL				
S IND. VARIETIES				
S GOLD LACE				
S YELLOW CRYSTAL	JAN. 2	JAN. 2 - JAN. 9	JAN. 16	NO
S YELLOW PRINCESS ANNE				
S VULCAN				
S WOKING SCARLET				
S PINK DELUXE				
S PRINCESS ANNE				
S PORTRAIT VARIETIES				
S LUNA				
S MONTY				
S QUICKSILVER				
S SNOWCLAD				
S MRS. WOLFE	JAN. 2	JAN. 2 - JAN. 12	JAN. 12	NO
S SUNDIAL				
S BRONZE PALMERO				
S MRS. PALMERO				
S BLUE RIBBON				
S BRIDESMAID				
S QUEEN OF PINKS				

S — For Single Stem Pots — Plant and Shade on Pinch Dates

YEAR-ROUND POT PLANT SCHEDULE

Bloom  
MAR. 27  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE				
S CLIPPER	DEC. 26	DEC. 26 - JAN. 9	JAN. 9	NO
CHARM				
S OREGON				
S OREGON TRAIL				
YELLOW DELAWARE	DEC. 26	DEC. 26 - JAN. 16	JAN. 9	NO
DELAWARE				
MERMAID				
CHALK CLIFF				
S RED STAR				
CRITERION				
WHITERION	JAN. 2	JAN. 2 - JAN. 12	JAN. 12	NO
HUMDINGER				
S LOUBENS				
PERSONALITY				
ICE FOLLIES				
LITTLE AMERICA				
QUEEN'S LACE				
SNOW CRYSTAL				
S IND. VARIETIES				
GOLD LACE				
YELLOW CRYSTAL	JAN. 9	JAN. 9 - JAN. 16	JAN. 23	NO
S YELLOW PRINCESS ANNE				
S VULCAN				
S WOKING SCARLET				
S PINK DELUXE				
S PRINCESS ANNE				
PORTRAIT VARIETIES				
LUNA				
MONTY				
QUICKSILVER				
SNOWCLAD				
S MRS. WOLFE				
SUNDIAL	JAN. 9	JAN. 9 - JAN. 19	JAN. 19	NO
S BRONZE PALMERO				
S MRS. PALMERO				
BLUE RIBBON				
BRIDESMAID				
QUEEN OF PINKS				

Bloom  
APRIL 3  
1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE				
S CLIPPER	JAN. 2	JAN. 2 - JAN. 12	JAN. 12	NO
CHARM				
S OREGON				
S OREGON TRAIL				
YELLOW DELAWARE	JAN. 2	JAN. 2 - JAN. 19	JAN. 12	NO
DELAWARE				
MERMAID				
CHALK CLIFF				
S RED STAR				
CRITERION				
WHITERION	JAN. 9	JAN. 2 - JAN. 19	JAN. 19	NO
HUMDINGER				
S LOUBENS				
PERSONALITY				
ICE FOLLIES				
LITTLE AMERICA				
QUEEN'S LACE				
SNOW CRYSTAL				
S IND. VARIETIES				
GOLD LACE				
YELLOW CRYSTAL	JAN. 16	JAN. 16 - JAN. 23	JAN. 30	NO
S YELLOW PRINCESS ANNE				
S VULCAN				
S WOKING SCARLET				
S PINK DELUXE				
S PRINCESS ANNE				
PORTRAIT VARIETIES				
LUNA				
MONTY				
QUICKSILVER				
SNOWCLAD				
S MRS. WOFLE				
SUNDIAL	JAN. 16	JAN. 16 - JAN. 26	JAN. 26	NO
S BRONZE PALMERO				
S MRS. PALMERO				
BLUE RIBBON				
BRIDESMAID				
QUEEN OF PINKS				

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## 1961 ROUND POT PLANT SCHEDULE

**Bloom**  
**April 10**  
**1961**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFON DELUXE S CHARM S CLIPPER	JAN. 9	JAN. 9 - JAN. 19	JAN. 19	MAR. 20
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	JAN. 9	JAN. 9 - JAN. 26	JAN. 19	MAR. 27
S CHALK CLIFF S SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S PERSONALITY S WHITERION	JAN. 16	JAN. 16 - JAN. 26	JAN. 26	MAR. 27
S GRANITE STATE S WILSON'S WHITE	JAN. 16	JAN. 16 - FEB. 2	JAN. 26	MAR. 27
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE S PORTRAIT VARIETIES	JAN. 23	JAN. 23 - JAN. 30	FEB. 6	MAR. 27
S LUNA S MONTY S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BLUE RIBBON S BRIDESMAID S QUEEN OF PINKS	JAN. 23	JAN. 23 - FEB. 2	FEB. 2	MAR. 27
OSTOSA LARRY CHRIS COLUMBUS JESSAMINE WILLIAMS BENORA MAESTRO JOAN-ETTE GLORIA GARDENIA  YEL. CHRIS COLUMBUS MOONLIGHT GAY BLADE ASTORIA YELLOW SPOON KINGS RANSOM ETHEL WATERS BLAZING GOLD  MINNEHAHA MESABI W. P. SNYDER LIPSTICK REMEMBRANCE AGLOW RED MISCHIEF DOLLI-ETTE TORONTO CHEYENNE RADIANCE CAPRICE ZEST MAJESTIC LEE-ETTE  MINNPINK PURPLE WATERS SPELLBOUND CECELIA MISCHIEF JOYBRINGER RASPBERRY ICE ALERT ROYAL-ETTE CANDYTUFT CUPID	FEB. 6	FEB. 6 - FEB. 13	FEB. 13	APR. 3

S — For Single Stem Pots — Plant and Shade on Pinch Dates



## YEAR-ROUND POT PLANT SCHEDULE

Bloom

April 17

1961

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFON DELUXE CHARM CLIPPER	JAN. 16	JAN. 16 - JAN. 26	JAN. 26	MAR. 20
S OREGON S OREGON TRAIL S YELLOW DELAWARE DELAWARE MERMAID	JAN. 16	JAN. 16 - FEB. 2	JAN. 26	MAR. 27
S CHALK CLIFF SCEPTER S RED STAR CRITERION S HUMDINGER LOUBENS PERSONALITY WHITERION	JAN. 30	JAN. 30 - FEB. 6	FEB. 6	MAR. 27
S GRANITE STATE WILSON'S WHITE	JAN. 30	JAN. 30 - FEB. 13	FEB. 6	MAR. 27
S ICE FOLLIES LITTLE AMERICA QUEEN'S LACE SNOW CRYSTAL IND. VARIETIES GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE PORTRAIT VARIETIES	JAN. 30	JAN. 30 - FEB. 6	FEB. 13	MAR. 27
S LUNA MALOU MONTY QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO BLUE RIBBON BRIDESMAID QUEEN OF PINKS	FEB. 6	FEB. 6 - FEB. 13	FEB. 13	MAR. 27
OSTOSA LARRY CHRIS COLUMBUS JESSAMINE WILLIAMS BENORA MAESTRO JOAN-ETTE GLORIA GARDENIA  YEL. CHRIS COLUMBUS MOONLIGHT GAY BLADE ASTORIA YELLOW SPOON KINGS RANSOM ETHEL WATERS BLAZING GOLD  MINNEHAHA MESABI W. P. SNYDER LIPSTICK REMEMBRANCE AGLOW RED MISCHIEF DOLLI-ETTE TORONTO CHEYENNE RADIANCE CAPRICE ZEST MAJESTIC LEE-ETTE  MINNPINK PURPLE WATERS SPELLBOUND CECELIA MISCHIEF JOYBRINGER RASPBERRY ICE ALERT ROYAL-ETTE CANDYTUFT CUPID	FEB. 13	FEB. 13 - FEB. 20	FEB. 20	APR. 3

S — For Single Stem Pots — Plant and Shade on Pinch Dates

YEAR-ROUND FLOWER PLANT SCHEDULE

Bloom  
April 25  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFON DELUXE S CHARM S CLIPPER	FEB. 1	FEB. 1 - FEB. 8	FEB. 8	MAR. 14
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	FEB. 1	FEB. 1 - FEB. 15	FEB. 8	MAR. 21
S CHALK CLIFF S SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S PERSONALITY S WHITERION	FEB. 8	FEB. 8 - FEB. 15	FEB. 15	MAR. 21
GRANITE STATE POITEVINE SUPREME	FEB. 8	FEB. 8 - FEB. 22	FEB. 15	MAR. 28
ICE FOLLIES LITTLE AMERICA QUEEN'S LACE SNOW CRYSTAL GOLD LACE YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE S PORTRAIT VARIETIES	FEB. 8	FEB. 8 - FEB. 15	FEB. 22	MAR. 21
S LUNA S MALOU S MONTY S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BLUE RIBBON S BRIDESMAID S QUEEN OF PINKS	FEB. 15	FEB. 15 - FEB. 22	FEB. 22	MAR. 28
OSTOSA LARRY CHRIS COLUMBUS JESSAMINE WILLIAMS BENORA MAESTRO JOAN-ETTE GLORIA GARDENIA YEL. CHRIS COLUMBUS MOONLIGHT GAY BLADE ASTORIA YELLOW SPOON KINGS RANSOM ETHEL WATERS BLAZING GOLD MINNEHAHA MESABI W. P. SNYDER LIPSTICK REMEMBRANCE AGLOW RED MISCHIEF DOLLI-ETTE TORONTO CHEYENNE RADIANCE CAPRICE ZEST MAJESTIC LEE-ETTE MINNPINK PURPLE WATERS SPELLBOUND CECELIA MISCHIEF JOYBRINGER RASPBERRY ICE ALERT ROYAL-ETTE CANDYTUFT CUPID	FEB. 22	FEB. 22 - FEB. 29	FEB. 29	APR. 4

S — For Single Stem Pots — Plant and Shade on Pinch Dates

# SPRINGBOUND POT PLANT SCHEDULE

Bloom  
May 2  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFON DELUXE CHARM	FEB. 8	FEB. 8 - FEB. 15	FEB. 15	MAR. 14
S OREGON S OREGON TRAIL YELLOW DELAWARE DELAWARE MERMAID	FEB. 8	FEB. 8 - FEB. 22	FEB. 15	MAR. 21
CHALK CLIFF SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS PERSONALITY WHITERION	FEB. 15	FEB. 15 - FEB. 22	FEB. 22	MAR. 21
GRANITE STATE POITEVINE SUPREME	FEB. 15	FEB. 15 - FEB. 29	FEB. 22	MAR. 24
ICE FOLLIES LITTLE AMERICA QUEEN'S LACE SNOW CRYSTAL GOLD LACE YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE PORTRAIT VARIETIES	FEB. 15	FEB. 15 - FEB. 22	FEB. 29	MAR. 21
S LUNA MALOU MONTY QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO BLUE RIBBON BRIDESMAID QUEEN OF PINKS	FEB. 22	FEB. 22 - FEB. 29	FEB. 29	MAR. 28
OSTOSA LARRY CHRIS COLUMBUS JESSAMINE WILLIAMS BENORA MAESTRO JOAN-ETTE GLORIA GARDENIA  YEL. CHRIS COLUMBUS MOONLIGHT GAY BLADE ASTORIA YELLOW SPOON KINGS RANSOM ETHEL WATERS BLAZING GOLD  MINNEHAHA MESABI W. P. SNYDER LIPSTICK REMEMBRANCE AGLOW RED MISCHIEF DOLLI-ETTE TORONTO CHEYENNE RADIANCE CAPRICE ZEST MAJESTIC LEE-ETTE  MINNPINK PURPLE WATERS SPELLBOUND CECELIA MISCHIEF JOYBRINGER RASPBERRY ICE ALERT ROYAL-ETTE CANDYTUFT CUPID	FEB. 29	FEB. 29 - MAR. 7	MAR. 7	APR. 4

S — For Single Stem Pots — Plant and Shade on Pinch Dates

**Bloom  
May 9  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFON DELUXE CHARM	FEB. 15	FEB. 15 - FEB. 22	FEB. 22	MAR. 14
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	FEB. 15	FEB. 15 - FEB. 29	FEB. 22	MAR. 21
S CHALK CLIFF S SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S PERSONALITY S WHITERION	FEB. 22	FEB. 22 - FEB. 29	FEB. 29	MAR. 21
GRANITE STATE POITEVINE SUPREME	FEB. 22	FEB. 22 - MAR. 7	FEB. 29	MAR. 28
ICE FOLLIES LITTLE AMERICA QUEEN'S LACE SNOW CRYSTAL GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE S PORTRAIT VARIETIES	FEB. 22	FEB. 22 - FEB. 29	MAR. 7	MAR. 21
S LUNA S MALOU S MONTY S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BLUE RIBBON S BRIDESMAID S QUEEN OF PINKS	FEB. 29	FEB. 29 - MAR. 7	MAR. 7	MAR. 28
OSTOSA LARRY CHRIS COLUMBUS JESSAMINE WILLIAMS BENORA MAESTRO JOAN-ETTE GLORIA GARDENIA YEL. CHRIS COLUMBUS MOONLIGHT GAY BLADE ASTORIA YELLOW SPOON KINGS RANSOM ETHEL WATERS BLAZING GOLD				
MINNEHAHA MESABI W. P. SNYDER LIPSTICK REMEMBRANCE AGLOW RED MISCHIEF DOLLI-ETTE TORONTO CHEYENNE RADIANCE CAPRICE ZEST MAJESTIC LEE-ETTE	MAR 7	MAR. 7 - MAR. 14	MAR. 14	APR. 4
MINNPINK PURPLE WATERS SPELLBOUND CECELIA MISCHIEF JOYBRINGER RASPBERRY ICE ALERT ROYAL-ETTE CANDYTUFT CUPID				

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## POT PLANT SCHEDULE

Bloom  
May 16  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFON DELUXE CHARM	FEB. 22	FEB. 22 - FEB. 29	FEB. 29	MAR. 14
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	FEB. 22	FEB. 22 - MAR. 7	FEB. 29	MAR. 21
S CHALK CLIFF S SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S PERSONALITY S WHITERION	FEB. 29	FEB. 29 - MAR. 7	MAR. 7	MAR. 21
S GRANITE STATE S POITEVINE SUPREME	FEB. 29	FEB. 29 - MAR. 14	MAR. 7	MAR. 28
S ICE FOLLIES S QUEEN'S LACE S SNOW CRYSTAL S GOLD LACE S YELLOW CRYSTAL S PINK DELUXE S PORTRAIT VARIETIES	FEB. 29	FEB. 29 - MAR. 7	MAR. 14	MAR. 21
S LUNA S MALOU S MONTY S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BLUE RIBBON S BRIDESMAID S QUEEN OF PINKS	MAR. 7	MAR. 7 - MAR. 14	MAR. 14	MAR. 28
OSTOSA LARRY CHRIS COLUMBUS JESSAMINE WILLIAMS BENORA MAESTRA JOAN-ETTE GLORIA GARDENIA  YEL. CHRIS COLUMBUS MOONLIGHT GAY BLADE ASTORIA YELLOW SPOON KINGS RANSOM ETHEL WATERS BLAZING GOLD  MINNEHAHA MESABI W. P. SNYDER LIPSTICK REMEMBRANCE AGLOW RED MISCHIEF DOLLI-ETTE TORONTO CHEYENNE RADIANCE CAPRICE ZEST MAJESTIC LEE-ETTE  MINNPINK PURPLE WATERS SPELLBOUND CECELIA MISCHIEF JOYBRINGER RASPBERRY ICE ALERT ROYAL-ETTE CANDYTUFT CUPID	MAR. 14	MAR. 14 - MAR. 21	MAR. 21	APR. 4

S — For Single Stem Pots — Plant and Shade on Pinch Dates



## YEAR-ROUND POT PLANT SCHEDULE

**Bloom  
May 23  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFON DELUXE CHARM	FEB. 29	FEB. 29 - MAR. 7	MAR. 7	MAR. 14
S OREGON S OREGON TRAIL S YELLOW DELAWARE DELAWARE MERMAID	FEB. 29	FEB. 29 - MAR. 14	MAR. 7	MAR. 21
S CHALK CLIFF SCEPTER S RED STAR CRITERION S HUMDINGER S LOUBENS PERSONALITY WHITERION	MAR. 7	MAR. 7 - MAR. 14	MAR. 14	MAR. 21
S GRANITE STATE S POITEVINE SUPREME	MAR. 7	MAR. 7 - MAR. 21	MAR. 14	MAR. 28
S ICE FOLLIES QUEEN'S LACE SNOW CRYSTAL GOLD LACE S YELLOW CRYSTAL S PINK DELUXE PORTRAIT VARIETIES	MAR. 7	MAR. 7 - MAR. 14	MAR. 21	MAR. 21
S LUNA S MALOU MONTY QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BLUE RIBBON BRIDESMAID	MAR. 14	MAR. 14 - MAR. 21	MAR. 21	MAR. 28
OSTOSA LARRY CHRIS COLUMBUS JESSAMINE WILLIAMS BENORA MAESTRO JOAN-ETTE GLORIA GARDENIA				
YEL. CHRIS COLUMBUS MOONLIGHT ASTORIA YELLOW SPOON KINGS RANSOM ETHEL WATERS BLAZING GOLD				
MINNEHAHA MESABI W. P. SNYDER LIPSTICK REMEMBRANCE AGLOW RED MISCHIEF DOLLI-ETTE TORONTO CHEYENNE RADIANCE CAPRICE ZEST MAJESTIC LEE-ETTE	MAR. 21	MAR. 21 - MAR. 28	MAR. 28	APR. 4
MINNIPINK PURPLE WATERS SPELLBOUND CECELIA MISCHIEF JOYBRINGER RASPBERRY ICE ALERT ROYAL-ETTE CANDYTUFT CUPID				

S — For Single Stem Pots - Plant and Shade on Pinch Dates

Bloom  
May 30  
1960

CHRYSA NTHEMUM PLANT SCHEDULE

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFON DELUXE CHARM	MAR. 7	MAR. 7 - MAR. 14	MAR. 14	MAR. 14
S OREGON S OREGON TRAIL YELLOW DELAWARE DELAWARE MERMAID	MAR. 7	MAR. 7 - MAR. 21	MAR. 14	MAR. 21
S CHALK CLIFF SCEPTER RED STAR CRITERION HUMDINGER S LOUBENS PERSONALITY WHITERION	MAR. 14	MAR. 14 - MAR. 21	MAR. 21	MAR. 21
S GRANITE STATE POITEVINE SUPREME	MAR. 14	MAR. 14 - MAR. 28	MAR. 21	MAR. 28
S ICE FOLLIES QUEEN'S LACE GOLD LACE SNOW CRYSTAL YELLOW CRYSTAL PINK DELUXE PORTRAIT VARIETIES	MAR. 14	MAR. 14 - MAR. 21	MAR. 28	MAR. 21
S LUNA MALOU MONTY QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO BLUE RIBBON BRIDESMAID	MAR. 21	MAR. 21 - MAR. 28	MAR. 28	MAR. 28
OSTOSA LARRY CHRIS COLUMBUS JESSAMINE WILLIAMS BENORA MAESTRO GLORIA JOAN-ETTE GARDENIA  YEL. CHRIS COLUMBUS MOONLIGHT ASTORIA YELLOW SPOON KINGS RANSOM ETHEL WATERS BLAZING GOLD  MINNEHAHA MESABI W. P. SNYDER LIPSTICK REMEMBRANCE AGLOW RED MISCHIEF DOLLI-ETTE TORONTO CHEYENNE RADIANCE CAPRICE ZEST MAJESTIC LEE-ETTE  MINNPINK PURPLE WATERS SPELLBOUND CECELIA MISCHIEF JOYBRINGER RASPBERRY ICE ALERT ROYAL-ETTE CANDYTUFT CUPID	MAR. 28	MAR. 28 - APR. 4	APR. 4	APR. 4

## YEAR-ROUND POT PLANT SCHEDULE

Bloom  
June 6  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE	MAR. 14	MAR. 14 - MAR. 21	MAR. 21	MAR. 21
S OREGON S OREGON TRAIL YELLOW DELAWARE MERMAID	MAR. 14	MAR. 14 - MAR. 28	MAR. 21	MAR. 28
SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS PERSONALITY WHITERION	MAR. 21	MAR. 21 - MAR. 28	MAR. 28	MAR. 28
GRANITE STATE S POITEVINE SUPREME	MAR. 21	MAR. 21 - APR. 4	MAR. 28	APR. 4
QUEEN'S LACE SNOW CRYSTAL GOLD LACE YELLOW CRYSTAL	MAR. 21	MAR. 21 - MAR. 28	APR. 4	MAR. 28
LUNA S MALOU MONTY QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO BLUE RIBBON BRIDESMAID	MAR. 28	MAR. 28 - APR. 4	APR. 4	APR. 4

Bloom  
June 13  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE	MAR. 21	MAR. 21 - MAR. 28	MAR. 28	MAR. 28
S OREGON S OREGON TRAIL YELLOW DELAWARE MERMAID	MAR. 21	MAR. 21 - APR. 4	MAR. 28	APR. 4
SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS PERSONALITY WHITERION	MAR. 28	MAR. 28 - APR. 4	APR. 4	APR. 4
GRANITE STATE S POITEVINE SUPREME	MAR. 28	MAR. 28 - APR. 11	APR. 4	APR. 11
QUEEN'S LACE SNOW CRYSTAL GOLD LACE YELLOW CRYSTAL	MAR. 28	MAR. 28 - APR. 4	APR. 11	APR. 4
LUNA S MALOU MONTY QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO BLUE RIBBON BRIDESMAID	APR. 4	APR. 4 - APR. 11	APR. 11	APR. 11

S — For Single Stem Pots — Plant and Shade on Pinch Dates

EARLY BLOOMING PLANT SCHEDULE

Bloom  
June 20  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE	MAR. 28	MAR. 28 - APR. 4	APR. 4	APR. 4
S OREGON S OREGON TRAIL YELLOW DELAWARE MERMAID	MAR. 28	MAR. 28 - APR. 11	APR. 4	APR. 11
SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS PERSONALITY WHITERION	APR. 4	APR. 4 - APR. 11	APR. 11	APR. 11
S GRANITE STATE S POITEVINE SUPREME	APR. 4	APR. 4 - APR. 18	APR. 11	APR. 11
QUEEN'S LACE SNOW CRYSTAL GOLD LACE YELLOW CRYSTAL	APR. 4	APR. 4 - APR. 11	APR. 25	APR. 11
S LUNA S MALOU MONTY QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO BLUE RIBBON BRIDESMAID	APR. 11	APR. 11 - APR. 18	APR. 18	APR. 18

Bloom  
June 27  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE	APR. 4	APR. 4 - APR. 11	APR. 11	APR. 11
S OREGON S OREGON TRAIL YELLOW DELAWARE MERMAID	APR. 4	APR. 4 - APR. 18	APR. 11	APR. 18
SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS PERSONALITY WHITERION	APR. 11	APR. 11 - APR. 18	APR. 18	APR. 18
S GRANITE STATE S POITEVINE SUPREME	APR. 11	APR. 11 - APR. 25	APR. 18	APR. 25
QUEEN'S LACE SNOW CRYSTAL GOLD LACE YELLOW CRYSTAL	APR. 11	APR. 11 - APR. 18	MAY 2	APR. 18
S LUNA S MALOU MONTY QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO BLUE RIBBON BRIDESMAID	APR. 18	APR. 18 - APR. 25	APR. 25	APR. 25

S — For Single Stem Pots — Plant and Shade on Pinch Dates

**Bloom  
July 4  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE	APR. 11	APR. 11 - APR. 18	APR. 18	APR. 18
S OREGON				
S OREGON TRAIL	APR. 11	APR. 11 - APR. 25	APR. 18	APR. 25
YELLOW DELAWARE				
MERMAID				
LUMINARY				
S SCEPTER				
S RED STAR	APR. 18	APR. 18 - APR. 25	APR. 25	APR. 25
CRITERION				
S HUMDINGER				
LOUBENS				
WHITERION				
S WILSON'S WHITE	APR. 18	APR. 18 - MAY 2	APR. 25	MAY 2
S POITEVINE SUPREME				
SNOW CRYSTAL	APR. 18	APR. 18 - APR. 25	MAY 9	APR. 25
YELLOW CRYSTAL				
LUNA				
S MALOU				
QUICKSILVER				
SNOWCLAD				
S MRS. WOLFE	APR. 25	APR. 25 - MAY 2	MAY 2	MAY 2
SUNDIAL				
S BRONZE PALMERO				
S MRS. PALMERO				
RESOLUTE				
BLUE RIBBON				
BRIDESMAID				

**Bloom  
July 11  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE	APR. 18	APR. 18 - APR. 25	APR. 25	APR. 25
S OREGON				
S OREGON TRAIL	APR. 18	APR. 18 - MAY 2	APR. 25	MAY 2
YELLOW DELAWARE				
MERMAID				
LUMINARY				
S SCEPTER				
S RED STAR	APR. 25	APR. 25 - MAY 2	MAY 2	MAY 2
CRITERION				
S HUMDINGER				
LOUBENS				
WHITERION				
S WILSON'S WHITE	APR. 25	APR. 25 - MAY 9	MAY 2	MAY 9
S POITEVINE SUPREME				
SNOW CRYSTAL	APR. 25	APR. 25 - MAY 2	MAY 16	MAY 2
YELLOW CRYSTAL				
LUNA				
S MALOU				
QUICKSILVER				
SNOWCLAD				
S MRS. WOLFE	MAY 2	MAY 2 MAY 9	MAY 9	MAY 9
SUNDIAL				
S BRONZE PALMERO				
S MRS. PALMERO				
RESOLUTE				
BLUE RIBBON				
BRIDESMAID				



## YEAR-ROUND POT PLANT SCHEDULE

Bloom  
July 18  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE	APR. 25	APR. 25 - MAY 2	MAY 2	MAY 2
S OREGON S OREGON TRAIL S YELLOW DELAWARE S MERMAID	APR. 25	APR. 25 - MAY 9	MAY 2	MAY 9
LUMINARY SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S WHITERION	MAY 2	MAY 2 - MAY 9	MAY 9	MAY 9
S WILSON'S WHITE S POITEVINE SUPREME	MAY 2	MAY 2 - MAY 16	MAY 9	MAY 16
SNOW CRYSTAL YELLOW CRYSTAL	MAY 2	MAY 2 - MAY 9	MAY 23	MAY 9
LUNA S MALOU S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S RESOLUTE S BLUE RIBBON S BRIDESMAID	MAY 9	NONE	MAY 16	MAY 16

Bloom  
July 25  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE	MAY 2	MAY 2 - MAY 9	MAY 9	MAY 9
S OREGON S OREGON TRAIL S YELLOW DELAWARE S MERMAID	MAY 2	MAY 2 - MAY 16	MAY 9	MAY 16
LUMINARY SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S WHITERION	MAY 9	NONE	MAY 16	MAY 16
S WILSON'S WHITE S POITEVINE SUPREME	MAY 9	NONE	MAY 16	MAY 23
SNOW CRYSTAL YELLOW CRYSTAL	MAY 9	NONE	MAY 30	MAY 16
LUNA S MALOU S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S RESOLUTE S BLUE RIBBON S BRIDESMAID	MAY 16	NONE	MAY 23	MAY 23

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## YEAR-ROUND POT PLANT SCHEDULE

Bloom  
Aug. 1  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
BONNAFFON DELUXE	MAY 9	MAY 16	MAY 16
S OREGON S OREGON TRAIL YELLOW DELAWARE MERMAID	MAY 9	MAY 23	MAY 16
LUMINARY SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS WHITERION	MAY 16	MAY 23	MAY 23
S WILSON'S WHITE S POITEVINE SUPREME	MAY 16	MAY 23	MAY 30
SNOW CRYSTAL YELLOW CRYSTAL	MAY 16	JUNE 6	MAY 23
LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID	MAY 23	MAY 30	MAY 30

Bloom  
Aug. 8  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
BONNAFFON DELUXE	MAY 16	MAY 23	MAY 23
S OREGON S OREGON TRAIL YELLOW DELAWARE MERMAID	MAY 16	MAY 23	MAY 30
LUMINARY SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS WHITERION	MAY 23	MAY 30	MAY 30
S WILSON'S WHITE S POITEVINE SUPREME	MAY 23	MAY 30	JUNE 6
SNOW CRYSTAL YELLOW CRYSTAL	MAY 23	JUNE 13	MAY 30
LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID	MAY 30	JUNE 6	JUNE 6

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## WALL AND POT PLANT SCHEDULE

Bloom  
Aug. 15  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
BONNAFFON DELUXE	MAY 23	MAY 30	MAY 30
S OREGON S OREGON TRAIL YELLOW DELAWARE MERMAID	MAY 23	MAY 30	JUNE 6
S LUMINARY SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS WHITERION	MAY 30	JUNE 6	JUNE 6
S WILSON'S WHITE S POITEVINE SUPREME	MAY 30	JUNE 6	JUNE 13
SNOW CRYSTAL YELLOW CRYSTAL	MAY 30	JUNE 20	JUNE 6
S LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID	JUNE 6	JUNE 13	JUNE 13

Bloom  
Aug. 22  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
BONNAFFON DELUXE	MAY 30	JUNE 6	JUNE 6
S OREGON S OREGON TRAIL YELLOW DELAWARE MERMAID	MAY 30	JUNE 6	JUNE 13
S LUMINARY SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS WHITERION	JUNE 6	JUNE 13	JUNE 13
S PERLE ANGEVINE S WILSON'S WHITE S POITEVINE SUPREME	JUNE 6	JUNE 13	JUNE 20
SNOW CRYSTAL YELLOW CRYSTAL	JUNE 6	JUNE 27	JUNE 13
S LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID	JUNE 13	JUNE 20	JUNE 20

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## YEAR-ROUND POT PLANT SCHEDULE

**Bloom  
Aug. 29  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
BONNAFFON DELUXE	JUNE 6	JUNE 13	JUNE 6
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	JUNE 6	JUNE 13	JUNE 20
LUMINARY SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S WHITERION	JUNE 13	JUNE 20	JUNE 20
S PERLE ANGEVINE S WILSON'S WHITE S POITEVINE SUPREME	JUNE 13	JUNE 20	JUNE 27
SNOW CRYSTAL YELLOW CRYSTAL	JUNE 13	JULY 4	JUNE 20
LUNA S MALOU S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S RESOLUTE S BLUE RIBBON S BRIDESMAID	JUNE 20	JUNE 27	JUNE 27

**Bloom  
Sept. 5  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
BONNAFFON DELUXE	JUNE 13	JUNE 20	JUNE 13
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	JUNE 13	JUNE 20	JUNE 27
LUMINARY SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S WHITERION	JUNE 20	JUNE 27	JUNE 27
S PERLE ANGEVINE S WILSON'S WHITE S POITEVINE SUPREME	JUNE 20	JUNE 27	JULY 4
SNOW CRYSTAL YELLOW CRYSTAL	JUNE 20	JULY 11	JULY 4
LUNA S MALOU S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S RESOLUTE S BLUE RIBBON S BRIDESMAID	JUNE 27	JULY 4	JULY 4

S — For Single Stem Pots — Plant and Shade on Pinch Dates

PLANT SCHEDULE

**Bloom  
Sept. 12  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
BONNAFFON DELUXE	JUNE 20	JUNE 27	JUNE 20
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	JUNE 20	JUNE 27	JULY 4
LUMINARY SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS WHITERION	JUNE 27	JULY 4	JULY 4
S PERLE ANGEVINE S WILSON'S WHITE S POITEVINE SUPREME	JUNE 27	JULY 4	JULY 11
SNOW CRYSTAL YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PRINCESS ANNE	JUNE 27	JULY 18	JULY 4
LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID	JULY 4	JULY 11	JULY 11
ROYAL BRONZE	JULY 4	JULY 18	JULY 11

**Bloom  
Sept. 19  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
BONNAFFON DELUXE	JUNE 27	JULY 4	JUNE 27
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID S WHITERION	JUNE 27	JULY 4	JULY 11
LUMINARY SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS	JULY 4	JULY 11	JULY 11
S PERLE ANGEVINE S WILSON'S WHITE S POITEVINE SUPREME	JULY 4	JULY 11	JULY 18
SNOW CRYSTAL YELLOW CRYSTAL	JULY 4	JULY 25	JULY 11
LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID	JULY 11	JULY 18	JULY 18
ROYAL BRONZE	JULY 11	JULY 25	JULY 18

S — For Single Stem Pots — Plant and Shade on Pinch Dates



## YEAR-ROUND POT PLANT SCHEDULE

Bloom Sept. 26 1960	VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
	BONNAFFON DELUXE	JULY 4	JULY 11	JULY 4
	S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE MERMAID	JULY 4	JULY 11	JULY 18
	WHITERION LUMINARY SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS	JULY 11	JULY 18	JULY 18
	S PERLE ANGEVINE S WILSON'S WHITE S POITEVINE SUPREME	JULY 11	JULY 18	JULY 25
	SNOW CRYSTAL S YELLOW PRINCESS ANNE YELLOW CRYSTAL S PRINCESS ANNE	JULY 11	AUG. 1	JULY 18
	LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID	JULY 18	JULY 25	JULY 25
	ROYAL BRONZE	JULY 18	AUG. 1	JULY 25
	VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	PINCH	SHADE
Bloom Oct. 3 1960	BONNAFFON DELUXE S CLIPPER	JULY 11	JULY 18	JULY 18
	S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE MERMAID	JULY 11	JULY 18	JULY 25
	LUMINARY SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS PERSONALITY WHITERION	JULY 18	JULY 25	JULY 25
	S PERLE ANGEVINE S WILSON'S WHITE S POITEVINE SUPREME	JULY 18	JULY 25	AUG. 1
	SNOW CRYSTAL S YELLOW PRINCESS ANNE YELLOW CRYSTAL S PRINCESS ANNE	JULY 18	AUG. 8	JULY 25
	LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID	JULY 25	AUG. 1	AUG. 1
	ROYAL BRONZE	JULY 25	AUG. 8	AUG. 1

S — For Single Stem Pots — Plant and Shade on Pinch Dates

# PLANT SCHEDULE

Bloom  
Oct. 10  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CALVERT'S GOLD S CHARM S CLIPPER	JULY 18	NONE	JULY 25	JULY 25
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	JULY 18	NONE	JULY 25	AUG. 1
S VALENTINE S VEDOVA S VENOYA	JULY 18	NONE	AUG. 8	JULY 25
S CHALK CLIFF S SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S PERSONALITY S WHITERION	JULY 25	NONE	AUG. 1	AUG. 1
S PERLE ANGEVINE S WILSON'S WHITE S POITEVINE SUPREME S BARBARA FULLER	JULY 25	JULY 25 - AUG. 8	AUG. 1	AUG. 8
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE	JULY 25	NONE	AUG. 15	AUG. 1
S LUNA S MALOU S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S RESOLUTE S BLUE RIBBON S BRIDESMAID S QUEEN OF PINKS	AUG. 1	AUG. 1 - AUG. 8	AUG. 8	AUG. 8
ROYAL BRONZE	AUG. 1	NONE	AUG. 15	AUG. 8

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## YEAR-ROUND POT PLANT SCHEDULE

Bloom  
Oct. 17  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE S CALVERT'S GOLD CHARM S CLIPPER	JULY 25	NONE	AUG. 1	AUG. 1
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE MERMAID	JULY 25	JULY 25 - AUG. 8	AUG. 1	AUG. 8
S VALENTINE VEDOYA VEDOVA	JULY 25	NONE	AUG. 15	AUG. 1
CHALK CLIFF SCEPTER S RED STAR CRITERION HUMDINGER S LOUBENS PERSONALITY WHITERION	AUG. 1	AUG. 1 - AUG. 8	AUG. 8	AUG. 8
S PERLE ANGEVINE S WILSON'S WHITE S POITEVINE SUPREME BARBARA FULLER	AUG. 1	AUG. 1 - AUG. 15	AUG. 8	AUG. 15
ICE FOLLIES LITTLE AMERICA QUEEN'S LACE SNOW CRYSTAL S IND. VARIETIES GOLD LACE YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE	AUG. 1	NONE	AUG. 22	AUG. 8
LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID QUEEN OF PINKS	AUG. 8	AUG. 8 - AUG. 15	AUG. 15	AUG. 15
ROYAL BRONZE	AUG. 8	NONE	AUG. 22	AUG. 15

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## YEAR-ROUND POT PLANT SCHEDULE

Bloom  
Oct. 24  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CALVERT'S GOLD S CHARM S CLIPPER	AUG. 1	NONE	AUG. 8	AUG. 8
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	AUG. 1	AUG. 1 - AUG. 15	AUG. 8	AUG. 15
S VALENTINE S VEDOVA S VENOYA	AUG. 1	NONE	AUG. 22	AUG. 8
S CHALK CLIFF S SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S PERSONALITY S WHITERION	AUG. 8	AUG. 8 - AUG. 15	AUG. 15	AUG. 15
S WILSON'S WHITE S POITEVINE SUPREME S BARBARA FULLER S PERLE ANGEVINE	AUG. 8	AUG. 8 - AUG. 22	AUG. 15	AUG. 22
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE	AUG. 8	AUG. 8 - AUG. 15	AUG. 29	AUG. 15
S LUNA S MALOU S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S RESOLUTE S BLUE RIBBON S BRIDESMAID S QUEEN OF PINKS	AUG. 15	AUG. 15 - AUG. 22	AUG. 22	AUG. 22
ROYAL BRONZE	AUG. 15	AUG. 15 - AUG. 22	AUG. 29	AUG. 22

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## YEAR-ROUND POT PLANT SCHEDULE

**Bloom**  
**Oct. 31**  
**1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE S CALVERT'S GOLD CHARM S CLIPPER	AUG. 8	AUG. 8 - AUG. 15	AUG. 15	AUG. 15
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE MERMAID	AUG. 8	AUG. 8 - AUG. 22	AUG. 15	AUG. 22
S VALENTINE VEDOVA VENOYA	AUG. 8	AUG. 8 - AUG. 15	AUG. 29	AUG. 15
CHALK CLIFF S SCEPTER RED STAR CRITERION HUMDINGER S LOUBENS PERSONALITY WHITERION	AUG. 15	AUG. 15 - AUG. 22	AUG. 22	AUG. 22
S WILSON'S WHITE S POITEVINE SUPREME BARBARA FULLER S PERLE ANGEVINE	AUG. 15	AUG. 15 - AUG. 29	AUG. 22	AUG. 29
ICE FOLLIES LITTLE AMERICA QUEEN'S LACE SNOW CRYSTAL S IND. VARIETIES GOLD LACE YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE	AUG. 15	AUG. 15 - AUG. 22	SEPT. 5	AUG. 22
LUNA S MALOU QUICKSILVER SNOWCLAD S MRS. WOLFE SUNDIAL S BRONZE PALMERO S MRS. PALMERO RESOLUTE BLUE RIBBON BRIDESMAID QUEEN OF PINKS	AUG. 22	AUG. 22 - AUG. 29	AUG. 29	AUG. 29
ROYAL BRONZE	AUG. 22	AUG. 22 - AUG. 29	SEPT. 5	AUG. 29



## YEAR-ROUND POT PLANT SCHEDULE

Bloom  
Nov. 7  
1960

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CALVERT'S GOLD S CHARM S CLIPPER	AUG. 15	AUG. 15 - AUG. 22	AUG. 22	AUG. 22
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	AUG. 15	AUG. 15 - AUG. 29	AUG. 22	AUG. 29
S VALENTINE S VEDOVA S VENOYA S CALVERT'S ORANGE	AUG. 15	AUG. 15 - AUG. 22	SEPT. 5	AUG. 22
S CHALK CLIFF S SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S PERSONALITY S WHITERION	AUG. 22	AUG. 22 - AUG. 29	AUG. 29	AUG. 29
S WILSON'S WHITE S POITEVINE SUPREME S BARBARA FULLER S PERLE ANGEVINE	AUG. 22	AUG. 22 - SEPT. 5	AUG. 29	SEPT. 5
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE	AUG. 22	AUG. 22 - AUG. 29	SEPT. 12	AUG. 29
S LUNA S MALOU S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BLUE RIBBON S BRIDESMAID S QUEEN OF PINKS	AUG. 29	AUG. 29 - SEPT. 5	SEPT. 5	SEPT. 5
ROYAL BRONZE	AUG. 29	AUG. 29 - SEPT. 5	SEPT. 12	SEPT. 5

S — For Single Stem Pots — Plant and Shade on Pinch Dates

YEAR-ROUND POT PLANT SCHEDULE

**Bloom  
Nov. 14  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE S CALVERT'S GOLD S CHARM S CLIPPER	AUG. 22	AUG. 22 - AUG. 29	AUG. 29	AUG. 29
S OREGON S OREGON TRAIL S YELLOW DELAWARE S DELAWARE S MERMAID	AUG. 22	AUG. 22 - SEPT. 5	AUG. 29	SEPT. 5
S VALENTINE S CALVERT'S ORANGE S VEDOVA S VENOYA	AUG. 22	AUG. 22 - AUG. 29	SEPT. 12	AUG. 29
CHALK CLIFF S SCEPTER S RED STAR S CRITERION S HUMDINGER S LOUBENS S PERSONALITY S WHITERION	AUG. 29	AUG. 29 - SEPT. 5	SEPT. 5	SEPT. 5
S WILSON'S WHITE S POITEVINE SUPREME S BARBARA FULLER S PERLE ANGEVINE	AUG. 29	AUG. 29 - SEPT. 12	SEPT. 5	SEPT. 12
ICE FOLLIES LITTLE AMERICA QUEEN'S LACE SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YELLOW PRINCESS ANNE S PINK DELUXE S PRINCESS ANNE	AUG. 29	AUG. 29 - SEPT. 5	SEPT. 19	SEPT. 5
LUNA S MALOU S QUICKSILVER S SNOWCLAD S MRS. WOLFE S SUNDIAL S BRONZE PALMERO S MRS. PALMERO S BLUE RIBBON S BRIDESMAID S QUEEN OF PINKS	SEPT. 5	SEPT. 5 - SEPT. 15	SEPT. 15	SEPT. 15
ROYAL BRONZE	SEPT. 5	SEPT. 5 - SEPT. 12	SEPT. 19	SEPT. 12

S — For Single Stem Pots — Plant and Shade on Pinch Dates

**Bloom**  
**NOV. 21**  
**1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE				
S CLIPPER	AUG. 29	AUG. 29 - SEPT. 5	SEPT. 5	SEPT. 5
CHARM				
S OREGON				
S YELLOW DELAWARE	AUG. 29	AUG. 29 - SEPT. 12	SEPT. 5	NO
S DELAWARE				
MERMAID				
S VALENTINE	AUG. 29	AUG. 29 - SEPT. 5	SEPT. 19	NO
VENOYA				
CHALK CLIFF				
S RED STAR				
CRITERION	SEPT. 5	SEPT. 5 - SEPT. 15	SEPT. 15	NO
WHITERION				
S LOUBENS				
PERSONALITY				
ICE FOLLIES				
LITTLE AMERICA				
QUEEN'S LACE				
SNOW CRYSTAL				
S IND. VARIETIES	SEPT. 5	SEPT. 5 - SEPT. 12	SEPT. 26	NO
GOLD LACE				
YELLOW CRYSTAL				
S YEL. PRINCESS ANNE				
S PINK DELUXE				
S PRINCESS ANNE				
S WOKING SCARLET	SEPT. 5	SEPT. 5 - SEPT. 22	SEPT. 15	NO
S PERLE ANGEVINE				
S MALOU				
QUICKSILVER				
SNOWCLAD				
S MRS. WOFLE	SEPT. 12	SEPT. 12 - SEPT. 22	SEPT. 22	NO
SUNDIAL				
S MRS. PALMERO				
BRIDESMAID				
QUEEN OF PINKS				

**Bloom**  
**NOV. 28**  
**1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE				
S CLIPPER	SEPT. 5	SEPT. 5 - SEPT. 15	SEPT. 15	NO
CHARM				
S OREGON				
S YELLOW DELAWARE	SEPT. 5	SEPT. 5 - SEPT. 22	SEPT. 15	NO
S DELAWARE				
MERMAID				
S VALENTINE	SEPT. 5	SEPT. 5 - SEPT. 12	SEPT. 26	NO
VENOYA				
CHALK CLIFF				
S RED STAR				
CRITERION	SEPT. 12	SEPT. 12 - SEPT. 22	SEPT. 22	NO
WHITERION				
S LOUBENS				
PERSONALITY				
ICE FOLLIES				
LITTLE AMERICA				
QUEEN'S LACE				
SNOW CRYSTAL				
S IND. VARIETIES	SEPT. 12	SEPT. 12 - SEPT. 19	OCT. 3	NO
GOLD LACE				
YELLOW CRYSTAL				
S YEL. PRINCESS ANNE				
S PINK DELUXE				
S PRINCESS ANNE				
S WOKING SCARLET	SEPT. 5	SEPT. 5 - SEPT. 24	SEPT. 17	NO
S PERLE ANGEVINE				
S MALOU				
QUICKSILVER				
SNOWCLAD				
S MRS. WOFLE	SEPT. 19	SEPT. 19 - SEPT. 29	SEPT. 29	NO
SUNDIAL				
S MRS. PALMERO				
BRIDESMAID				
QUEEN OF PINKS				

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## YEAR-ROUND POT PLANT SCHEDULE

**Bloom  
DEC. 5  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE				
S CLIPPER	SEPT. 5	SEPT. 5 - SEPT. 17	SEPT. 17	NO
CHARM				
S OREGON				
S YELLOW DELAWARE	SEPT. 5	SEPT. 5 - SEPT. 24	SEPT. 17	NO
S DELAWARE				
MERMAID				
S VALENTINE	SEPT. 12	SEPT. 12 - SEPT. 19	OCT. 3	NO
VENOYA				
CHALK CLIFF				
S RED STAR	SEPT. 12	SEPT. 12 - SEPT. 24	SEPT. 24	NO
CRITERION				
WHITERION				
S LOUBENS				
PERSONALITY				
ICE FOLLIES				
LITTLE AMERICA				
QUEEN'S LACE				
SNOW CRYSTAL				
S IND. VARIETIES	SEPT. 19	SEPT. 19 - SEPT. 26	OCT. 10	NO
GOLD LACE				
YELLOW CRYSTAL				
S YEL. PRINCESS ANNE				
S PINK DELUXE				
S PRINCESS ANNE				
S WOKING SCARLET				
S PERLE ANGEVINE	SEPT. 12	SEPT. 12 - OCT. 1	SEPT. 24	NO
S MALOU				
QUICKSILVER				
SNOWCLAD				
S MRS. WOFLE	SEPT. 19	SEPT. 19 - OCT. 1	OCT. 1	NO
SUNDIAL				
S MRS. PALMERO				
BRIDESMAID				
QUEEN OF PINKS				

**Bloom  
DEC. 12  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
BONNAFFON DELUXE				
S CLIPPER	SEPT. 12	SEPT. 12 - SEPT. 24	SEPT. 24	NO
CHARM				
S OREGON				
S YELLOW DELAWARE	SEPT. 12	SEPT. 12 - OCT. 1	SEPT. 24	NO
S DELAWARE				
MERMAID				
S VALENTINE	SEPT. 19	SEPT. 19 - SEPT. 26	OCT. 10	NO
VENOYA				
CHALK CLIFF				
S RED STAR	SEPT. 19	SEPT. 19 - OCT. 1	OCT. 1	NO
CRITERION				
WHITERION				
S LOUBENS				
PERSONALITY				
ICE FOLLIES				
LITTLE AMERICA				
QUEEN'S LACE				
SNOW CRYSTAL				
S IND. VARIETIES	SEPT. 26	SEPT. 26 - OCT. 3	OCT. 17	NO
GOLD LACE				
YELLOW CRYSTAL				
S YEL. PRINCESS ANNE				
S VULCAN				
S WOKING SCARLET				
S PINK DELUXE				
S PRINCESS ANNE				
S PERLE ANGEVINE	SEPT. 19	SEPT. 19 - OCT. 8	OCT. 1	NO
QUICKSILVER				
SNOWCLAD				
SUNDIAL	SEPT. 26	SEPT. 26 - OCT. 10	OCT. 10	NO
S MRS. PALMERO				
BRIDESMAID				
QUEEN OF PINKS				

S — For Single Stem Pots — Plant and Shade on Pinch Dates

YEAR-ROUND POT PLANT SCHEDULE

**Bloom  
DEC. 19  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	SEPT. 19	SEPT. 19 - OCT. 1	OCT. 1	NO
S OREGON S YELLOW DELAWARE S DELAWARE S MERMAID	SEPT. 19	SEPT. 19 - OCT. 8	OCT. 1	NO
S VALENTINE S VENOYA	SEPT. 26	SEPT. 26 - OCT. 3	OCT. 17	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S LOUBENS S PERSONALITY	SEPT. 26	SEPT. 26 - OCT. 10	OCT. 10	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YEL. PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE S PERLE ANGEVINE	OCT. 3	OCT. 3 - OCT. 10	OCT. 24	NO
S QUICKSILVER S SNOWCLAD S SUNDIAL S MRS. PALMERO S BRIDESMAID S QUEEN OF PINKS	SEPT. 26	SEPT. 26 - OCT. 17	OCT. 10	NO
	OCT. 3	OCT. 3 - OCT. 17	OCT. 17	NO

**Bloom  
DEC. 26  
1960**

VARIETIES	PLANT 5 OR 6 CUTTINGS IN 6" POT	LIGHTING PERIOD	PINCH	SHADE
S BONNAFFON DELUXE S CLIPPER S CHARM	SEPT. 26	SEPT. 26 - OCT. 10	OCT. 10	NO
S OREGON S YELLOW DELAWARE S DELAWARE S MERMAID	SEPT. 26	SEPT. 26 - OCT. 17	OCT. 10	NO
S VALENTINE S VENOYA	OCT. 3	OCT. 3 - OCT. 10	OCT. 17	NO
S CHALK CLIFF S RED STAR S CRITERION S WHITERION S LOUBENS S PERSONALITY	OCT. 3	OCT. 3 - OCT. 17	OCT. 17	NO
S ICE FOLLIES S LITTLE AMERICA S QUEEN'S LACE S SNOW CRYSTAL S IND. VARIETIES S GOLD LACE S YELLOW CRYSTAL S YEL. PRINCESS ANNE S VULCAN S WOKING SCARLET S PINK DELUXE S PRINCESS ANNE S PERLE ANGEVINE	OCT. 10	OCT. 10 - OCT. 17	OCT. 24	NO
S QUICKSILVER S SNOWCLAD S SUNDIAL S MRS. PALMERO S BRIDESMAID S QUEEN OF PINKS	OCT. 3	OCT. 3 - OCT. 24	OCT. 17	NO
	OCT. 10	OCT. 10 - OCT. 24	OCT. 24	NO

S — For Single Stem Pots — Plant and Shade on Pinch Dates

## VARIETIES FOR YEAR-ROUND POTS

### WHITE



Growers Agreement

8  
WEEK

Variety—Description	Normal Flowering Date	Price
<b>GARDENIA</b> Large white decorative. Valuable spring and summer pot.	Oct. 15	S-2

9  
WEEK

<b>GRANITE STATE</b> White disbud pompon for pots.	Oct. 25	S-2
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<b>QUICKSILVER</b> Large decorative. Pure white. More durable, uniform and prolific than Wilson's White and at least a week earlier than Oregon.	Oct. 25	P-1
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<b>MONTY</b> Intermediate clear white disbud decorative. Outstanding in the spring.	Oct. 25	S-2
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<b>CREST</b> Medium sized formal pot disbud. Ivory white.	Oct. 25	P
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<b>QUEEN'S LACE</b> White spider. Tolerates 56°.	Nov. 1	S-4
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<b>WILSON'S WHITE</b> Large paper white decorative. Consistently dependable for uniform response but intolerant of overcropping.	Nov. 1	S-5
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<b>LUNA</b> Small light cream incurve. Compact and uniform.	Nov. 1	S-2
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Variety—Description	Normal Flowering Date	Price
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<b>PATTERSON'S WHITE</b> Large white decorative.	Nov. 1	S-2
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<b>MALOU</b> Intermediate incurve. Chalk white. Extremely short habit and strictly a pot variety. Pinched crops require high light environments. Best as a single stem pot where its beautifully rounded, incurved form has unlimited appeal.	Nov. 1	P-1
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<b>SNOWCLAD</b> Portrait size paper-white decorative. Tolerant of 56°.	Nov. 1	S-5
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<b>POITEVINE SUPREME—New</b> Intermediate white decorative. Wilson's White restyled and formalized. Petals are broad, completely incurved and not twisted or reflexed.	Nov. 1	P-1
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<b>PERLE ANGEVINE—New</b> Tightly incurved lavender pink standard. Very short growth suited to single stem pots. Best April through December. Will go blind in Northern winters. Pinched pots require maximum light, space and short day treatment. Available June 6, 1960.	Nov. 1	P-1
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10  
WEEK

<b>OREGON</b> Large white semi-incurve. Stronger habit, larger and more beautiful flower than Wilson's White. Compact, short, rigid growth and vigorous breaking action. Flowers develop most rapidly when finished 60° or less.	Nov. 5	S-8
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<b>SNOW CRYSTAL</b> Medium ivory white spider. Feathery spooned petals. Captures much of the delicate Snowdrift form from which it was bred. Strong habit, and wiry stems make it a novel pot variety.	Nov. 5	S-5
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IN THE FOLLOWING LIST NEW VARIETIES FOR 1960 ARE ENCLOSED IN A BOX.

CONSULT PAGE 144 FOR A COMPLETE PRICE TABLE, USING CODE NUMBERS AS KEYS.



## VARIETIES FOR YEAR-ROUND POTS

### WHITE



10  
WEEK

Variety—Description	Normal Flowering Date	Price	Variety—Description	Normal Flowering Date	Price
<b>WHITEHOUSE</b> Intermediate white anemone.	Nov. 5	P	<b>CHALK CLIFF</b> Large chalk white decorative. A white Portrait for pots. For winter and spring.	Nov. 10	S-4
<b>WHITERION—New</b> White sport of Criterion. Identical to parent in all respects except color. A clear glistening white except when finished well below 60. Durable and dependable for year around pots using medium treatment. Available June 6, 1960.	Nov. 8	P-1	<b>ICE FOLLIES</b> Large decorative. Chalk white. A very durable pot variety especially valuable in winter programs. While smaller than Oregon or Wilson's White it sets a new standard for uniform response, smart form and good breaking action. Combines the best traits of Snowclad and Chalk Cliff and is considered superior to White Criterion.	Nov. 10	P-1
<b>ENSIGN</b> Intermediate decorative. A white Bonnaffon seedling.	Nov. 10	S-1			

### YELLOW

8  
WEEK

<b>BLAZING GOLD</b> Intermediate semi-incurve. Golden yellow.	Oct. 23	S-4
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9  
WEEK

<b>GEORGIA</b> Intermediate dark yellow incurve. Dwarf and compact.	Oct. 25	S-1	<b>SUNDIAL</b> Intermediate feathered spider disbud. Deep lemon yellow. Short habit.	Oct. 25	P-1
<b>OHIO STATE</b> Large, intense yellow decorative. Its fast uniform response, tolerance of high temperature and brilliant color add efficiency and form variation to the popular Yellow Delaware.	Oct. 25	P	<b>WILSON'S YELLOW</b> Lemon yellow, decorative.	Nov. 1	S-2
			<b>MRS. WOLFE</b> Large incurve. Lemon yellow. Its place is exclusively in single stem pot culture where 6-8" blooms are obtained. Does not burn.	Nov. 1	P-1

10  
WEEK

<b>LUMINARY</b> Intermediate yellow disbud. Decorative form. A summer Bonnaffon Deluxe.	Nov. 5	S-2	<b>OREGON TRAIL</b> Large semi-incurve. Light yellow resembling the variety Luna in color. Sport from Oregon.	Nov. 5	P-1
<b>CAPRICORN</b> Large decorative standard.	Nov. 5	P-1			

SNOW CRYSTAL



ICE FOLLIES



## VARIETIES FOR YEAR-ROUND POTS

### YELLOW



Growers Agreement

10  
WEEK

Variety—Description	Normal Flowering Date	Price
<b>YELLOW CRYSTAL</b> New Medium lemon yellow spider. An excellent sport of the increasingly popular pot variety Snow Crystal. Strong habit and tall treatment is required the year round. Both disbud and spray pots are being grown.	Nov. 5	P-1
<b>YELLOW CALYPSO</b> Large lemon yellow incurve.	Nov. 8	S-1
<b>YELLOW DELAWARE</b> Large golden yellow incurved sport from Delaware. Close attention to having plants fully established and pinching into soft new wood is important for maximum breaking action.	Nov. 8	S-9

Variety—Description	Normal Flowering Date	Price
<b>YELLOW PRINCESS ANNE</b> —New Large decorative standard. Sulfur yellow. A very responsive, uniform and efficient pot variety. Color will not tolerate extreme summer heat. Mid September through mid June flowerings yield best results.	Nov. 10	S-1
<b>GOLDEN CALYPSO</b> Large incurve. Golden yellow sport from Yellow Calypso.	Nov. 10	P-1
<b>SCEPTER</b> Large decorative. Deep golden yellow. Will tinge golden bronze with low temperature finish.	Nov. 10	P-1

11  
WEEK

<b>BONNAFFON DELUXE</b> Intermediate deep lemon incurve. A rewarding and top notch pot variety. Sensitive to heavy soils and overwatering. Requires a 65° minimum temperature for growth, initiation and early stages of bud development.	Nov. 20	S-8
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<b>YELLOW VALENTINE</b> —New Brilliant golden yellow sport of Valentine. For October through April, with tall treatment, this variety should be competitive with Yellow Delaware. Do not finish lower than 60°. Available June 6, 1960.	Nov. 20	P-1
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### BRONZE AND RED

8  
WEEK

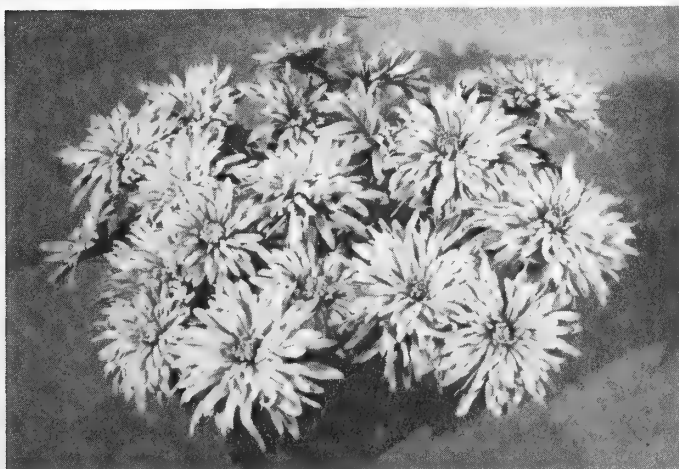
<b>BRONZE CALYPSO</b> Large orange bronze incurve. Very short growth. Exclusively a pot plant variety. Excellent for single stem pots in spring and fall.	Nov. 8	S-1
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9  
WEEK

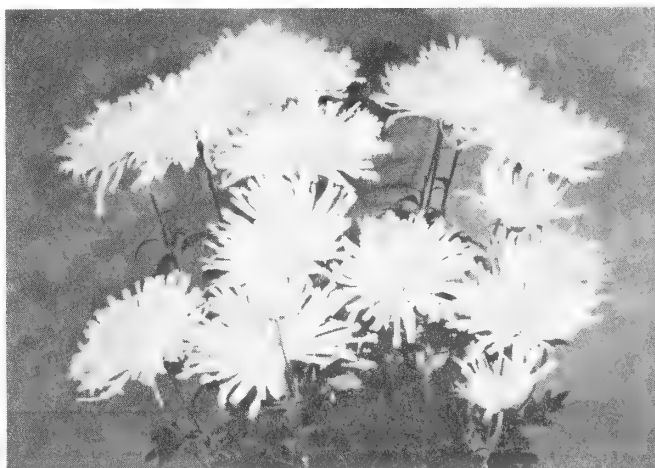
<b>ROYAL BRONZE</b> Intense bronze decorative. Pot disbud.	Nov. 1	S-2
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<b>BARBARA FULLER</b> Red anemone. Fall and early winter pots.	Nov. 1	P
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SCEPTER



SUNDIAL



## VARIETIES FOR YEAR-ROUND POTS

### BRONZE AND RED



**10  
WEEK**

Variety—Description	Normal Flowering Date	Price
<b>COSSACK</b> Large decorative standard. Intense crimson red. Limited to single stem pot programs.	Nov. 5	P-1
<b>SANDROCK</b> Small formal standard. Light bronze. Pinched crops require high light conditions.	Nov. 5	P-1
<b>RED STAR</b> Large decorative. Red to reddish bronze. A profuse and wide-angled breaking habit contributes to a shapely plant. One of the very best for a bronze in summer pot programs.	Nov. 5	P-1
<b>VULCAN</b> Large decorative. Crimson red. A close companion to Red Star.	Nov. 5	P-1
<b>DELAWARE</b> Large reddish bronze semi-incurved standard. Outstanding for pot plants pinched and single stem. Its dwarf habit and slow rate of growth make attention to soft tip pinching into only new growth of fully established plants of primary importance.	Nov. 8	S-8
<b>INCURVED DELAWARE</b> Large standard. Reddish bronze. Shows gold reverse due to incurved form. Tightly incurved form mutation from Delaware.	Nov. 8	S-3

Variety—Description	Normal Flowering Date	Price
<b>CLIPPER—New</b> Large incurved bronze red with light bronze reverse. A huge, beautifully incurved version of Delaware but twice as large. Strictly for pots October through April. Needs medium treatment. Available June 6, 1960.	Nov. 10	P-1
<b>BRONZE DELUXE—New</b> Light bronze sport of Pink Deluxe. Large decorative. Requires cool finish. Available June 6, 1960.	Nov. 10	P-1
<b>WOKING SCARLET</b> Large decorative standard. Brilliant scarlet bronze. An exciting combination of color and habit for pots. Vigorous and requires close attention to shade and delayed pinch procedure.	Nov. 10	P-1
<b>RED HUMDINGER</b> An exciting burgundy red sport from Humdinger. Form, size and vigor are identical to the parent variety. Requires attention to soft tip pinching of fully established plants.	Nov. 11	S-4
<b>#2 RED HUMDINGER—New</b> A significant color intensification on Red Humdinger. This one has more red and less purple.	Nov. 11	P-1

**11  
WEEK**

<b>HARMONY—New</b> Medium sized semi-incurved standard for pots. Brilliant golden bronze. Uniform and responsive for flowering mid-September through June. Delays with heat. Available June 6, 1960.	Nov. 15	P-1
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<b>TAN VEDOVA—New</b> Light bronze sport of Vedova. A new pastel color that requires a cool 60° finish. October through April pots with tall treatment. Available June 6, 1960.	Nov. 15	P-1
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### PINK

**9  
WEEK**

<b>PINK RIBBON—New</b> Light lavender pink incurved standard. A distinctive color and form sport from Blue Ribbon. Since this requires a cool 60° finish for best color, flower March through mid-May, and October through December in pot programs, medium treatment. Available June 6, 1960.	Nov. 1	P-1
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<b>BLUE RIBBON—New</b> Small bright lavender pink incurve. Color markedly improves Queen of Pinks. Valuable for summer color retention.	Nov. 1	S-5
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SANDROCK



CLIPPER



## VARIETIES FOR YEAR-ROUND POTS

### PINK



Growers Agreement

### 9 WEEK

Variety—Description	Normal Flowering Date	Price
<b>DARK RIBBON</b> —New Small incurved deep pink sport of Blue Ribbon. Flower is more solid, formal and holds its form in all periods. Better color for hot weather. For flowering March through December, for pots. Available June 6, 1960.	Nov. 1	P-1
<b>QUEEN OF PINKS</b> Small pink incurve. An old favorite for pots. Requires cool finish.	Nov. 1	S-4

Variety—Description	Normal Flowering Date	Price
<b>BRIDESMAID</b> Large spider. Light lavender pink for pots. Medium growth habit combined with good breaking action, spread and uniform response make for a superior pink spider. Stronger necks than the Lace varieties.	Nov. 1	P-1
<b>GLAMOUR</b> Formal pom of intermediate size. Lavender pink.	Nov. 1	S-1

### 10 WEEK

<b>MERMAID</b> Intermediate pompon. Medium lavender pink with an intense tone on tone center contrast. High summer temperature color retention equals that of Blue Ribbon.	Nov. 5	S-6
<b>LOUBENS</b> Large incurved standard. Deep lavender pink. Best pink for single stem pot programs.	Nov. 5	P-1
<b>CRITERION</b> Large pink decorative with a vigorous growth habit. Achieves a peak of perfection in the fall, winter and spring.	Nov. 8	S-6
<b>ROSAMUND</b> —New Medium sized semi-incurved standard. Rose pink with coral overtones. Prolific and responsive, it is good in Spring and Winter crops. Habit resembles Woking Scarlet. For pots, needs tall treatment. Available June 6, 1960.	Nov. 10	P-1
<b>PERSONALITY</b> A large luminous-pink incurved pompon. Tolerant of 56° for bud initiation and development.	Nov. 10	S-6

<b>HUMDINGER</b> Large luminous violet purple, formal pompon. Tolerates 56°. Strong consumer appeal. Best breaking action is obtained from soft tip pinches of vigorously growing plants.	Nov. 10	S-5
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<b>FROLIC</b> Intermediate pompon. Bright lavender pink. Breaks, spreads and responds in a foolproof manner. Spray pot programs.	Nov. 10	P-1
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<b>PINK DELUXE</b> Medium to large lavender pink disbud. Heavy stems, short internodes, with free and wide-angled breaking action. Slowed and frequently burned by high temperature. Requires prompt disbudding also.	Nov. 10	S-6
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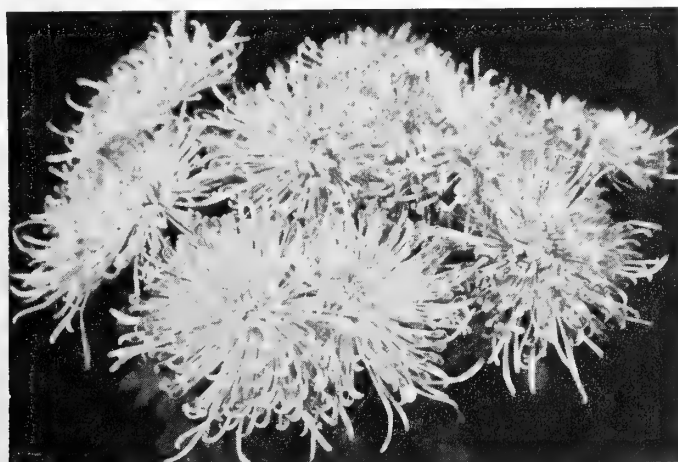
<b>PRINCESS ANNE</b> —New Large decorative standard. Salmon pink. Valuable new color and form addition to the mid September through mid May program. Pinched pots spread and break well with excellent uniformity and response.	Nov. 10	S-1
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### 11 WEEK

<b>CHARM</b> Intermediate anemone. Bright pink. Short habit.	Nov. 15	P-1
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<b>HEATHER</b> —New Medium sized luminous pink anemone for pots. Breaks and spreads well for mid September through May programs. Available June 6, 1960.	Nov. 15	P-1
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BRIDESMAID



HEATHER





## EARLY VARIETIES FOR SPRING POTS AND GARDENS

### WHITE



**7  
WEEK**

Variety—Description	Normal Flowering Date	Price
<b>OSTOSA</b> Intermediate paper white pompon. One of the best whites for gardens and spring pots.	Sept. 25	S-1
<b>WHITE CUSHION</b> White duplex pompon.	Sept. 25	S-6
<b>CHRIS. COLUMBUS</b> Intermediate cream decorative. Short, compact and prolific. Very dependable for <i>no light—no shade spring pots</i> .	Oct. 1	S-4
<b>LARRY</b> Intermediate paper-white pompon. Compact short habit defines its place as a high quality pot variety. This is tops among the 7-week whites for <i>no light—no shade May pots</i> .	Oct. 1	S-1

Variety—Description	Normal Flowering Date	Price
<b>JESSAMINE WILLIAMS</b> White spoon decorative. A prolific and responsive variety well suited to spring pots with <i>no light and no shade</i> treatment.	Oct. 1	S-1
<b>BENORA</b> Intermediate white pompon.	Oct. 8	P
<b>MAESTRO</b> White pompon. Spring pots. Garden variety.	Oct. 10	P
<b>SILVERPLATE</b> White decorative. Spring pots.	Oct. 12	P


**8  
WEEK**

<b>GLORIA</b> Intermediate pompon. Ivory white. Larger and more double than Chris. Columbus. Fine <i>no light—no shade May pot</i> variety.	Oct. 15	S-3
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<b>JOAN-ETTE New</b> Large quill type spider. Ivory white. This is the answer to a Fuji for spring pots and outdoor gardens. It has size, spread and establishes a new standard for beauty, appeal and performance. Requires little or no disbudding in <i>no light—no shade May pots</i> .	Oct. 15	P-1
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### YELLOW

**7  
WEEK**

<b>GOLDEN CUSHION</b> Golden yellow pompon.	Sept. 25	S-6
<b>YELLOW CUSHION</b> Light yellow pompon.	Sept. 25	S-6
<b>YELLOW CHRIS. COLUMBUS</b> Intermediate lemon yellow decorative. A proven pot plant for <i>no light—no shade</i> and May crops.	Oct. 1	S-4
 <b>GAY BLADE New</b> Bright yellow miniature spider. An early, dwarf cushion habit that has few equals for color and mass display value. Earlier and far more responsive than Yellow Spoon. Gay Blade responds flawlessly as a <i>no light—no shade spring pot</i> .	Oct. 1	P-1

<b>MOONLIGHT</b> Yellow pompon. For garden borders and spring pots.	Oct. 1	P
<b>ASTORIA</b> Yellow pompon. Spring pots.	Oct. 5	S-1
<b>CHARLES NYE</b> Yellow pompon.	Oct. 5	P
<b>CHIKUITA</b> Yellow button.	Oct. 5	P
<b>YELLOW SPOON</b> Yellow spoon single.	Oct. 5	S-1

MESABI



MINNEHAHA



## EARLY VARIETIES FOR SPRING POTS AND GARDENS

### YELLOW



**7  
WEEK**

**Variety—Description**  
**ETHEL WATERS**  
Large pompon. Lemon yellow. Its strong plant with attractive form and color combine to make for good spring pots and outstanding garden specimens.

**Normal Flowering Date**  
**Oct. 10**  
**Price**  
**S-2**

**Variety—Description**  
**KINGS RANSOM**  
Intermediate decorative. Golden yellow. Tops for yellow in *no light—no shade* spring pot programs. Colorful and equally dependable as a fall garden variety.

**Normal Flowering Date**  
**Oct. 10**  
**Price**  
**S-2**

**8  
WEEK**

**PEKING New**  
Intermediate decorative. Primrose yellow. Closely resembles a yellow Gardenia. Excellent size. Displays better spread, habit and production than Kings Ransom. A winner for *no light—no shade* May pots.

**Oct. 15**  
**P-1**

### BRONZE AND RED

**7  
WEEK**

**MINNEHAHA**  
Small pompon. Coral bronze. Will flower as a late six week variety in *no light—no shade* May pots. Its fast, uniform response makes it the most efficient cushion variety available to spring pot and garden programs.

**Sept. 15**  
**S-3**

**MESABI**  
Small pompon. Rust bronze. Extremely early, responsive and very dependable *no light—no shade* spring pot.

**Sept. 20**  
**S-3**

**CHAMPION CUSHION**  
Deep bronze pompon.

**Sept. 25**  
**S-6**

**COMMANDER CUSHION**  
Red duplex pompon. Excellent cushion habit for garden borders.

**Sept. 25**  
**S-6**

**MAHOGANY CUSHION**  
Jasper red pompon.

**Sept. 25**  
**S-6**

**W. P. SNYDER**  
Intermediate decorative. Apricot bronze.

**Oct. 1**  
**S-1**

**REMEMBRANCE**  
Carmine red pompon.

**Oct. 5**  
**S-1**

**AGLOW**  
Bronze pompon. Spring pots. Garden variety.

**Oct. 5**  
**P**

**LIPSTICK**  
Small burgundy red cushion pom. Dwarf spreading habit coupled with free breaking action add up to a reliable spring pot plant.

**Oct. 5**  
**S-2**

**RED MISCHIEF**  
Deep red daisy. As prolific, responsive and dependable as its parent Mischief in spring pot and garden programs.

**Oct. 10**  
**S-1**

**DOLLI-ETTE**  
Intermediate golden bronze spoon. An interesting and colorful novelty. Tops for spring pots. Prolific and durable garden variety.

**Oct. 10**  
**S-2**

**TORONTO**  
Intermediate orange-bronze decorative.

**Oct. 10**  
**P**

**8  
WEEK**

**RADIANCE**  
Intermediate red decorative. Spring pots. Color brighter, habit more prolific than Red Velvet.

**Oct. 15**  
**S-1**

**CAPRICE**  
Large decorative. Intense apricot bronze. Strong, semi-dwarf growth. Develops a large 4" flower for *no light—no shade* spring pots.

**Oct. 15**  
**S-3**

PEKING



RED MISCHIEF





## EARLY VARIETIES FOR SPRING POTS AND GARDENS

### BRONZE AND RED



**8  
WEEK**

Variety—Description	Normal Flowering Date	Price
<b>CHEYENNE—New</b> Large decorative. Bright red. Excellent stem and foliage. Sharply responsive in no light—no shade May pot programs. Has the size and color required to nearly equal the standards set by Delaware.	Oct. 15	P-1
<b>ZEST New</b> Red spoon. Compact cushion habit similar to Dolli-Ette with intensified color. Follows Dolli-Ette in no light—no shade spring programs with improved vigor and color display.	Oct. 15	P-1

Variety—Description	Normal Flowering Date	Price
<b>MAJESTIC</b> Small incurved disbud. Bronze. Outstanding as border garden variety.	Oct. 20	S-2
<b>LEE-ETTE</b> Small silver bronze double spider.	Oct. 23	P

### PINK

**7  
WEEK**

<b>MINNPINK</b> Small pompon. Coral pink. Compact cushion habit. A distinctive improvement on Major Cushion for color and form. Good habit for spring pots and garden culture.	Sept. 25	S-3
<b>MAJOR CUSHION</b> Pink duplex pompon.	Sept. 25	S-6
<b>PURPLE WATERS</b> Intermediate pompon. Deep purple. Early, dependable response, compact habit and showy color rank it well over Alert and at the top of pink varieties suitable for no light—no shade spring pots.	Sept. 25	S-3
<b>CECELIA</b> Intermediate decorative. Deep pink. Compact, cushion type habit. Uniform and prolific in no light—no shade spring pot programs.	Oct. 1	S-6
<b>SPELLBOUND</b> Lavender decorative.	Oct. 1	S-2
<b>MISCHIEF</b> Dark purple daisy produced in abundance on a cushion plant. Dependable no light—no shade spring pot.	Oct. 10	S-1

<b>JOYBRINGER</b> Salmon rose pompon. Garden and spring pot culture.	Oct. 10	S-1
<b>RASPBERRY ICE</b> Small pompon. Raspberry pink. Responsive and prolific variety with compact, well branched habit that is ideally suited to spring pots and fall gardens.	Oct. 10	P
<b>ALERT</b> Intermediate purple decorative.	Oct. 14	S-2
<b>FUCHSIA FAIRY</b> Pink decorative. Growth habit similar to the Cushion varieties.	Oct. 14	P
<b>#2 FUCHSIA FAIRY—New</b> Small decorative. Pink. Selection from Fuchsia Fairy that embodies the improvements of deeper color and better retention of it, more double flower, and more interesting serrated form.	Oct. 14	P

**8  
WEEK**

<b>CUPID</b> Small pink decorative. Unique dahlia form.	Oct. 15	P
<b>CITATION</b> Intermediate pink pompon.	Oct. 15	P
<b>JEWELL</b> Small formal pompon. Lavender pink, short and productive.	Oct. 15	P

<b>ROYAL-ETTE New</b> Intermediate spoon. Bright lavender pink. A more vigorous companion for Dolli-Ette. Instant appeal and beauty. Gives a flawless performance in the fall garden. Responsive with no light—no shade early May pots.	Oct. 15	P-1
<b>CANDYTUFT</b> Lavender pink button pom. Spring pots.	Oct. 15	P



CANDYTUFT



PURPLE WATERS

## VARIETIES FOR YEAR-ROUND STANDARDS

### WHITE



Growers Agreement

**8  
WEEK**  
PINCH  
JULY 18

Variety—Description	Normal Flowering Date	Price
<b>WHITE PINK CHIEF</b> Intermediate pure white incurve. Selection from Pink Chief. Tolerates 56°. Will develop pink tinges with cool (60°) finishing temperatures. Tall growth habit. Best given 9-week long day treatment. Resists heat delay and petal burn.	Oct. 15	S-5

Variety—Description	Normal Flowering Date	Price
<b>SILVER SHEEN</b> Intermediate white incurve. Tolerates 56°.	Oct. 20	S-3
<b>#2 WHITE CHIEF</b> White incurved standard. Short habit. This variety is quite dissimilar and has no known relationship to White Pink Chief.	Oct. 20	S-1

**9  
WEEK**  
PINCH  
JULY 25

<b>SILVER QUEEN</b> White Fuji mum. Stem improves Rayonnante.	Oct. 25	S-1
<b>MARBLEHEAD</b> Medium clear white incurve. Durable and responsive.	Oct. 25	S-2
<b>AMBASSADOR</b> Large ivory incurve.	Oct. 25	S-2
<b>MOONTIDE</b> Medium to small ivory-white standard. Tightly incurved ball form. Withstands minimum of 56° in the spring for bud initiation.	Oct. 28	P
<b>QUEEN'S LACE</b> Large white spider. Tolerates 56°. Responds well in both lighted and shaded programs.	Nov. 1	S-4
<b>ALBATROSS</b> Large white incurve. Tolerates 56°. Rated as one of the better West Coast varieties used for spring and summer flowering. Ships well.	Nov. 1	S-6

**DONLOPE'S WHITE SPIDER**—New Nov. 1 P  
Large spider. Ivory white. Unequaled for size and form. It provides a fine companion for the popular Luyona. Strong stem, good foliage and tolerance of high temperature are valuable assets. Its vigor and size rank it as the top white spider available.

**WHITE MARY GARDEN** Nov. 1 S-1  
White sport from Mary Garden. Straight tubed spider. Tinges pink at low temperatures.



**THEMESONG** Nov. 1 P-1  
Medium semi-incurved ivory white standard. Possesses Good News substance and durability, but smaller in size. Adapted especially for summer high light, high temperature periods and intolerant of less than 60° for initiation. Very resistant to petal burn.

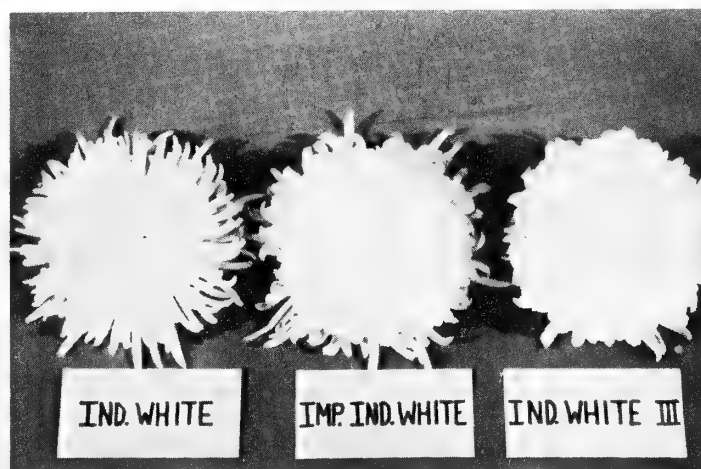
**10  
WEEK**  
PINCH  
AUGUST 1

<b>INDIANAPOLIS WHITE</b> Large white incurve. Flowers are sensitive to heat burn. Not considered tolerant to outdoor culture.	Nov. 5	S-8
<b>IMP. IND. WHITE</b> Large white standard. Selected for, and provides a very significant reduction of winter quilling in comparison with the original parent variety. During the winter, depth of flower is greater and incurvature improved. Slight ivory overcast until full maturity. The best of the Indianapolis White selections for flowering in less than 60° finishing units. Devoid of pink tinges. Not as tolerant to warm 60° in winter as Indianapolis White or #3 Indianapolis White.	Nov. 5	S-8

**GIANT BETSY ROSS** Nov. 5 S-7  
Large white incurved sport of Betsy Ross. Requires high temperatures for initiation and development.

**#3 INDIANAPOLIS WHITE** Nov. 5 P-1  
Large incurve. White. Sport from Indianapolis White. Like the Imp. Ind. White it does not quill under winter low light and temperature conditions. Noticeably larger than the Improved, a whiter color, and superior in form retention and depth of flower. It is, by all measurements, the best selection to date from Indianapolis White for use at any period when the Indianapolis varieties are grown.

DONLOPE'S WHITE SPIDER



## VARIETIES FOR YEAR-ROUND STANDARDS

### WHITE



Growers Agreement

**10  
WEEK**

**PINCH  
AUGUST 1**

Variety—Description	Normal Flowering Date	Price
<b>WHITE RAYONNANTE</b> White spider. Straight tube. Best adapted to West Coast environments.	Nov. 5	S-3
<b>WHIRLWIND</b> Large pure white reflexed standard. Supplement for Betsy Ross in the summer. Durable with strong growth and heavy petallage. Shaggy, interesting new form.	Nov. 5	P
<b>WHITE PRINCE—New</b> Intermediate pure white incurve from J. W. Prince. Durable, short, and withstands heat and humidity well. <i>Available June 6, 1960.</i>	Nov. 5	P-1
<b>SUSAN LEIGHTON</b> Large ivory white spider. Thin delicately tubed petals. Short habit.	Nov. 6	P
<b>THE FAVOURITE New</b> Large incurved standard. White. Same family as Golden Favourite. Responsive and durable. Cut crops require an extra long day week. Its impressive tolerance to both high and low temperatures merits full consideration for West Coast standards.	Nov. 10	P-1
<b>JEAN ELIZABETH</b> Large white semi-incurve. A Queen Sport.	Nov. 10	P

Variety—Description	Normal Flowering Date	Price
<b>CRYSTAL QUEEN</b> A pure white sport from Orchid Queen that improves Jean Elizabeth in clarity of color and compactness of flowers. The Queens prove to be more reliable in Single Stem programs rather than pinched. They lack uniform breaking action. Better heat tolerance allows the Queens to be flowered later into the spring than the Indianapolis varieties.	Nov. 10	S-5
<b>MEFO</b> Large ivory incurve. Considered by many producers to be one of the best all around white standards for winter production in the northern states. It achieves larger flowers and more vigorous growth during the mid winter months than do the Indianapolis Whites.	Nov. 10	S-7
<b>MONUMENT</b> Intermediate ivory incurve.	Nov. 10	S-2
<b>FRED SHOESMITH</b> Large white incurve. A very late 10-week or early 11-week variety. Relatively short, stocky growth that should receive 10-week treatment to obtain desired stem length. Tolerates 56°. Excels the size of Indianapolis White, and usually flowers about 7 days later in either a lighted or shaded program. Cool finish in winter materially benefits stem strength. It does not display winter quill nor pink in any manner. Requires protection and is slow under high temperature conditions. Warm finishes induce shattering. Best grown pinched to offset tip split.	Nov. 12	S-6

**11  
WEEK**  
**PINCH  
AUGUST 8**

<b>STERLING</b> Large pure white incurve.	Nov. 15	S-1
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<b>MARKETEER</b> Intermediate chalk white incurve.	Nov. 18	S-3
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THEMESONG



YELLOW SHOESMITH



## VARIETIES FOR YEAR-ROUND STANDARDS

### WHITE

**12  
WEEK**  
PINCH  
AUGUST 15

Variety—Description	Normal Flowering Date	Price
<b>WHITE PETER JOHN</b> Large clear white decorative. Use 60° minimum for bud initiation; 55° for bud development. Sport from Peter John.	Nov. 25	S-1
<b>CHATTANOOGA</b> Large pure white incurve. Requires 60-65° for uniform bud initiation. Will vegetate at less.	Nov. 25	S-4

Variety—Description	Normal Flowering Date	Price
<b>DECEMBER GLORY</b> Intermediate white incurve. Has little or no competition in its response group.	Dec. 1	S-3
<b>MARGARET MOELLER</b> Intermediate white incurve. Very formal standard. Short habit.	Dec. 3	S-1

**13  
WEEK**  
PINCH  
AUGUST 22

<b>WHITE MISTLETOE</b> Intermediate tall white incurve. Best results require 50° finish.	Dec. 5	P
<b>SMITH'S WHITE</b> Intermediate white semi-incurve. With a 50° or lower finish, variety is often held for Christmas.	Dec. 10	S-5
<b>SMITH'S CREAM WHITE</b> A beautiful smooth cream colored sport from Smith's White. Vigor and flower size excels that of Tobin's Yellow.	Dec. 10	P

<b>DECEMBER WHITE</b> Intermediate white incurve.	Dec. 15	S-1
<b>SNOWLINE</b> A large showy white flower. Requires 60° to initiate and develop buds uniformly. The latest of the natural flowering white standards.	Dec. 20	P

### YELLOW

**8  
WEEK**  
PINCH  
JULY 18

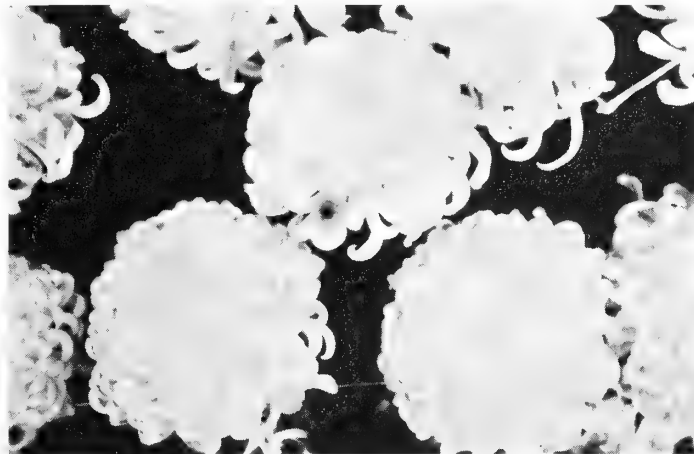
<b>HARVEST GOLDEN</b> Large deep golden yellow decorative. Very colorful, responsive. Tolerates 56°.	Oct. 15	S-2
<b>GOLD LODGE</b> Intermediate lemon yellow reflexed standard.	Oct. 15	S-1
<b>CELESTRA</b> Small deep lemon yellow semi-incurve. Tolerates 56°.	Oct. 15	P
<b>MRS. KIDDER</b> Large golden yellow incurve.	Oct. 20	S-3

<b>BUTTERBALL</b> Intermediate deep lemon incurve.	Oct. 20	S-1
<b>YELLOW CHIEF</b> Lemon yellow incurve. Sport of White Chief. Short habit of growth.	Oct. 20	P-1
<b>BLAZING GOLD</b> Intermediate semi-incurve. Golden yellow. Widely grown as a standard.	Oct. 23	S-4

GOLDEN FAVORITE



GOLDEN BOY



## VARIETIES FOR YEAR-ROUND STANDARDS

### YELLOW

**9  
WEEK**

**PINCH  
JULY 25**

Variety—Description	Normal Flowering Date	Price
<b>YELLOW AMBASSADOR</b> Intermediate light lemon yellow incurve.	Oct. 25	S-1
<b>LUYONA</b> Large yellow spider with quality blooms and fine stem. Tolerates 56°. Prolific and dependable bantamum. Its unquestioned reliability has made it the most popular yellow spider grown for year round use. Form is best if flower is cut slightly green.	Oct. 25	S-4
<b>SUNGLOW</b> Large golden yellow incurve.	Oct. 25	S-1
<b>YELLOW MARBLEHEAD</b> Medium lemon-yellow incurve. Sport of Marblehead. The Marbleheads require the high light, high temperature combination to achieve maximum stretch and flower size.	Oct. 25	S-1
<b>MECCA</b> Large incurved standard. Deep lemon yellow. Tall, vigorous growth habit. Should not be crowded. Withstands burning.	Oct. 25	P-1
<b>YELLOW LACE</b> Lemon yellow spider.	Nov. 1	S-2

Variety—Description	Normal Flowering Date	Price
<b>GOLD LACE</b> Golden yellow spider. Sport of Yellow Lace. Tolerates 56°. Versatile variety that lends itself to both lighted and shaded programs.	Nov. 1	S-4
<b>GOOD NEWS</b> Large deep yellow incurve. Tolerates 56° for bud initiation but grows and develops the largest flowers under high light, high summer temperatures. Flowers are durable. Adapts to either greenhouse or cloth house culture. One of the better shippers.	Nov. 1	S-8
<b>YELLOW IVANHOE</b> Golden yellow sport from Ivanhoe. Tolerates 56°.	Nov. 1	S-1
<b>GOLDEN BOY New</b> Deep lemon yellow incurved standard. Stems are quite heavy and rigid. Flower develops great depth and retains its incurvature well. Very resistant to high temperature burn, and therefore recommended May through mid November. It is larger than Good News, a little softer but ships well. Fall crops are best grown pinched for uniform terminal bud development.	Nov. 1	P

**10  
WEEK**

**PINCH  
AUGUST 1**

<b>IMP. IND. YELLOW</b> Light golden yellow selection of Indianapolis Yellow. Displays best form for yellow Indianapolis varieties in winter crops. The most versatile and popular of the Indianapolis yellow varieties.	Nov. 5	S-8
<b>INDIANAPOLIS YELLOW</b> Large lemon yellow incurve. Clear yellow color. Less orange cast than Imp. Ind. Yellow.	Nov. 5	S-6

<b>INDIANAPOLIS GOLD</b> Large golden yellow incurved standard. Color intensifies the present Dk. Ind. Yellow. Same habits. Petals quill during the winter.	Nov. 5	S-7
<b>DK. IND. YELLOW</b> Deep lemon yellow. Develops one of the largest sized blooms within the Indianapolis group during the high light periods of spring and fall. Form reverts to all tubular petals when flowered during low light periods of mid-winter.	Nov. 5	S-4

**EXPLORER**



**BEACON**






## VARIETIES FOR YEAR-ROUND STANDARDS

### YELLOW



Growers Agreement

**10  
WEEK**  
**PINCH  
AUGUST 1**

Variety—Description	Normal Flowering Date	Price
<b>YELLOW PRINCE—New</b>	<b>Nov. 5</b>	<b>P-1</b>
Intermediate yellow incurved sport of J. W. Prince. Very durable. Tolerates heat and humidity well. Available June 6, 1960.		
<b>CHAIRMAN</b>	<b>Nov. 5</b>	<b>S-1</b>
Large golden yellow decorative. Tolerant to 56° for bud initiation. Vigorous. Form distorted by high summer greenhouse temperatures.		
<b>YELLOW BETSY ROSS</b>	<b>Nov. 5</b>	<b>S-2</b>
Intermediate lemon yellow incurve. Sport of Betsy Ross. Shorter habit, smaller more tightly incurved flower. Strictly for high temperature flowering periods.		
<b>IMP. YELLOW RAYONNANTE</b>	<b>Nov. 5</b>	<b>S-3</b>
A clear yellow spider selection of Yellow Rayonnante with increased size and improved form. Vigor and stem strength are also greater. West Coast variety.		
 <b>EXPLORER</b>	<b>Nov. 5</b>	<b>P-1</b>
Large incurved standard. Deep yellow. Tall growth habit. A Good News seedling with all its low temperature tolerance, improved vigor and uniformity. A faithful performer from late September through early June in non-cooled greenhouses in Ohio. Excessively high temperature finishes cause some flower malformation, but superb with cool finish. Petallage has substance and is resistant to burning.		
<b>INDIANAPOLIS CREAM</b>	<b>Nov. 5</b>	<b>P-1</b>
Large incurve. Cream yellow. Taller and more vigorous than Indianapolis Yellow and a few days slower response.		
<b>NIGHTINGALE</b>	<b>Nov. 5</b>	<b>S-2</b>
Chartreuse green spider. Popular West Coast novelty.		
<b>YELLOW LEIGHTON</b>	<b>Nov. 6</b>	<b>P</b>
Large delicate spider. Lemon yellow. Short habit.		

Variety—Description	Normal Flowering Date	Price
<b>GORDON WELLS</b>	<b>Nov. 8</b>	<b>P</b>
Intermediate lemon yellow incurve. Perfection in form. Shatters in high temperatures.		
<b>YELLOW MARVEL</b>	<b>Nov. 8</b>	<b>P-1</b>
Large, ball-shaped incurve. Deep lemon-yellow. A suitable high light, high temperature, spring, summer and early fall variety. Flowers are durable and resist high temperature burn.		
<b>YELLOW QUEEN</b>	<b>Nov. 10</b>	<b>S-4</b>
Large light lemon semi-incurved. Best color clarity attained during mid-winter flowering.		
<b>#2 YELLOW QUEEN</b>	<b>Nov. 10</b>	<b>P-1</b>
Deep lemon yellow sport of Yellow Queen. Flower is larger with improved vigor. Looks good for September through June programs. Available June 6, 1960.		
<b>YELLOW MEFO</b>	<b>Nov. 10</b>	<b>S-6</b>
Large deep lemon incurve. A perfect companion to flower with Mefo for all periods whenever the crop is lighted. Variety should not be included in any early fall shaded crops because of petal reduction.		
<b>CREAM MEFO</b>	<b>Nov. 10</b>	<b>S-3</b>
A cream yellow sport from Mefo. Has demonstrated to be the most vigorous of the Mefos. Produces larger flowers than Yellow Mefo.		
<b>YELLOW MONUMENT</b>	<b>Nov. 10</b>	<b>S-1</b>
Intermediate light lemon incurve.		
<b>GOLDEN FAVOURITE</b>	<b>Nov. 10</b>	<b>P-1</b>
Large semi-incurved standard. Bright yellow. Responsive and durable. Short habit. Has News size and form. Too short for northern winter programs.		
<b>GOLDEN SHOESMITH</b>	<b>Nov. 12</b>	<b>S-5</b>
Large incurved yellow standard. Intensified color sport of Yellow Fred Shoesmith. Useful for the same periods as parent variety. Pinching is recommended to offset tip split. Slightly smaller flower but equally as compact as Fred Shoesmith.		

YELLOW MARVEL



MRS. PALMERO





VARIETIES FOR YEAR-ROUND STANDARDS

YELLOW

**10  
WEEK**  
PINCH  
AUGUST 1

Variety—Description	Normal Flowering Date	Price
<b>YELLOW SHOESMITH</b> Large yellow incurve. Richly colored sport of Fred Shoesmith. Identical in most respects to parent. Slightly tighter form incurvature and less lower petal reflex. Cool finishing temperatures are favorable to the most acceptable type of flower development for the Shoesmiths. Pinching recommended to correct tip split. Form is larger and more open than Golden Shoesmith.	Nov. 12	S-5

Variety—Description	Normal Flowering Date	Price
<b>YELLOW WAIKIKI</b> Large spider. Clear lemon yellow sport from Wai-kiki.	Nov. 13	P

**11  
WEEK**  
PINCH  
AUGUST 8

<b>YELLOW MARKETEER</b> Lemon yellow.	Nov. 18	S-1
<b>FRIENDLY RIVAL</b> Intermediate intense golden yellow incurve. Tolerates 56°.	Nov. 20	S-2
<b>YELLOW VALENTINE—New</b> Brilliant golden yellow sport of Valentine. For October through April, with tall treatment, this variety should be competitive with Yellow Delaware. Do not finish lower than 60°. Available June 6, 1960.	Nov. 20	P-1

<b>HARVESTER</b> Intermediate deep lemon yellow incurve. Resembles Good News. Flowers naturally for Thanksgiving. Lights satisfactorily for a March and April crop in a cool 60° environment.	Nov. 23	S-4
<b>MARIE DE PETRIS</b> Intermediate deep yellow incurve. Popular for natural Thanksgiving crops.	Nov. 23	S-3

**12  
WEEK**  
PINCH  
AUGUST 15

<b>YELLOW PETER JOHN</b> Large light lemon yellow decorative. Requires 60° minimum for bud initiation; 55° for bud development.	Nov. 25	P
<b>DK. YEL. CHATTANOOGA</b> Deep lemon yellow sport. Thanksgiving variety.	Nov. 25	S-2
<b>YELLOW CHATTANOOGA</b> Large light lemon incurve. Same vigor as Chattanooga.	Nov. 25	S-2
<b>GOLDEN PEARSON</b> Intermediate light lemon incurve.	Nov. 25	S-2
<b>SUNGOLD</b> Large lemon yellow incurve.	Nov. 25	P

<b>YELLOW GLORY</b> Intermediate lemon yellow incurve. Sport from December Glory. Popular late standard for early December bloom.	Dec. 1	S-2
<b>#2 YELLOW GLORY—New</b> Dark yellow selection from Yellow Glory. Has better color appeal than original, and may be slightly taller. Available June 6, 1960.	Dec. 1	P-1
<b>GOLDEN MRS. ROSS</b> Large deep lemon incurve.	Dec. 3	S-2
<b>GOLDEN MOELLER</b> Intermediate incurved standard. Golden yellow. Sport from Yellow Moeller that equals size and habit of Margaret Moeller.	Dec. 3	P-1

DUCHESS



MAYFORD TITAN



## VARIETIES FOR YEAR-ROUND STANDAI

### YELLOW

**13  
WEEK**  
PINCH  
AUGUST 22

Variety—Description	Normal Flowering Date	Price
<b>SMITH'S YELLOW—New</b>	<b>Dec. 10</b>	<b>P-1</b>
Sport from Smith's White. Lemon yellow standard larger than original Tobin's Yellow with habit and vigor resembling Smith's White. A silvery yellow that should replace the old Tobin's Yellow. <i>Available June 6, 1960.</i>		

<b>TOBIN'S YELLOW</b>	<b>Dec. 10</b>	<b>S-4</b>
Intermediate deep lemon semi-incurve. Sport from Smith's White. Vigor and flower size are slightly less than that of parent.		

Variety—Description

#### METEORE

Intermediate deep lemon semi-incurve standard.

#### DAUNTLESS

**Dec. 13 P**

Small golden yellow semi-incurve.

### BRONZE AND RED

**8  
WEEK**  
PINCH  
JULY 18

<b>AMBER BRIGHT</b>	<b>Oct. 15</b>	<b>S-2</b>
Large golden bronze decorative. Tolerant of 56°. Fine yellow fast disbud at high temperatures. Efficient Bantamum, especially in summer. This is a "never-fail" variety.		

#### MAYFORD TITAN

**Oct. 24 P-1**

Intermediate incurved standard. Intense golden bronze. Approaches Detroit News color, durability, and substance. Best grown on a pinched crop basis in May and June. Summer conditions induce crownish budding.

**9  
WEEK**  
PINCH  
JULY 25

<b>HILDA BERGEN</b>	<b>Oct. 25</b>	<b>P</b>
Small reddish bronze incurve.		

<b>SUNDOWN New</b>	<b>Oct. 25</b>	<b>P-1</b>
Orange bronze disbud. A close counterpart of Fred Yule that does not shatter but shows similar winter vegetativeness. Has the vigor, color retention and size needed to rate it a top notch disbud for fast crops during late May through October.		

<b>ZYLON</b>	<b>Oct. 25</b>	<b>P</b>
Intermediate semi-incurve. Intense crimson red. Color resistant to fading. Usefully adapted to shading in fast disbud programs.		

#### BRONZE PALMERO

**Oct. 28 P-1**

Medium semi-incurve. Coral bronze. A reliable, easily grown variety.

#### MRS. PALMERO

**Oct. 28 P-1**

Medium sized semi-incurve standard. Maroon red.

#### ALEX COLSON

**Nov. 1 P-1**

Large vivid bronze decorative.

#### IVANHOE

**Nov. 1 S-1**

Small russet bronze incurve. Tolerates 56°.

ALEX COLSON



WOKING SCARLET



## VARIETIES FOR YEAR-ROUND STANDARDS

### BRONZE AND RED

**9  
WEEK**  
PINCH  
JULY 25

Variety—Description	Normal Flowering Date	Price
<b>DETROIT NEWS</b>	Nov. 1	S-6
Large reddish bronze incurve. Makes the best growth under high light and high summer temperature environments. Maximum bronze color expression demands a cool finish.		
<b>DUCHESS</b>	Nov. 1	S-1
Medium to large bronze spider mum, sometimes called a "Spindle" mum. Duplex form. Petals are straight and tubular with substance. Vigorous and responsively dependable. High summer finishing temperatures dull color. Duchess makes an excellent bronze spider companion to Luyona.		

Variety—Description	Normal Flowering Date	Price
<b>FRED YULE</b>	Nov. 3	S-2
Intermediate orange bronze incurved standard. A new color. Has vigor and stretch. Vegetative during the winter months. Pinching normally corrects tendencies to develop premature crown buds. For high light, high temperature periods.		

**10  
WEEK**  
PINCH  
AUGUST 1

<b>INDIANAPOLIS BRONZE</b>	Nov. 5	S-5
Large bronze incurve. Winter quilling on all Indianapolis varieties is greatly increased by temperature reduction below 60°. Cool 60° is the minimum that can be recommended.		
<b>INDIANAPOLIS APRICOT</b>	Nov. 5	S-1
Intermediate warm apricot bronze incurve. A more versatile color than its parent Indianapolis Bronze. Size slightly smaller; habit stronger.		
<b>DK. IND. BRONZE</b>	Nov. 5	S-5
Dark reddish bronze sport. Establishes better color expression than Indianapolis Bronze during May and early fall flowerings.		
<b>GENA HARWOOD</b>	Nov. 5	S-1
Spider (Bronze Rayonnante). Light bronze tube.		
<b>NOMAGO</b>	Nov. 5	P
Light bronze spider. Spring and fall standard programs.		
<b>MAMORU</b>	Nov. 5	P
Buff copper spider.		

<b>BRONZE PRINCE—New</b>	Nov. 5	P-1
Intermediate bronze incurved sport of J. W. Prince. A durable, heat tolerant variety of short habit. Available June 6, 1960.		

<b>ANACONDA</b>	Nov. 8	S-2
Large red bronze incurve.		

<b>BR. ORCHID QUEEN</b>	Nov. 10	S-1
Buff coral bronze sport.		

<b>COPPER QUEEN</b>	Nov. 10	S-2
Large copper bronze incurve sport of Orchid Queen. Large flower and more vigorous than Bronze Orchid Queen. Reselected for improved size, color and uniformity.		

<b>WOKING SCARLET</b>	Nov. 10	P-1
Large decorative standard. Brilliant scarlet bronze. When given one additional long day week the variety will have the stretch required to produce excellent fast disbuds. Fine stem and foliage. Flower color achieves a new standard for sheen and dazzling flame. Dependable bantamum.		

MISS AMERICA



OAK LEAF #2



## VARIETIES FOR YEAR-ROUND STANDARDS

### BRONZE AND RED

<b>10 WEEK</b> PINCH AUGUST 1	<b>Variety—Description</b> <b>MRS. ROY</b> Large red incurve with copper reverse. Variety needs both high light and space to attain stem rigidity.	<b>Normal Flowering Date</b> <b>Nov. 13</b>	<b>Price</b> <b>S-4</b>	<b>Variety—Description</b> <b>WAIKIKI</b> Spider. Red bronze tube. Yellow tips. Tall growth habit.	<b>Normal Flowering Date</b> <b>Nov. 13</b>	<b>Price</b> <b>S-1</b>
				<b>GARNET KING</b> Intermediate deep crimson red reflex. A standard for late November and the Xmas season.	<b>Nov. 13</b>	<b>S-1</b>
<b>11 WEEK</b> PINCH AUGUST 8	<b>BALCOMBE PERFECTION</b> Intermediate copper bronze incurve. Short variety benefited by two additional weeks time pinch to shade. Recommend cool finish. Durable for its natural Thanksgiving season.	<b>Nov. 18</b>	<b>S-3</b>	<b>VALENTINE</b> Large red disbud decorative. With one additional week pinch to shade. Valentine provides fine medium sized standards or disbudded sprays of 3-5 flowers. The same treatment and period is recommended for fast disbuds. Will initiate and develop buds at 56°.	<b>Nov. 20</b>	<b>S-4</b>
	<b>RED BALCOMBE PERFECTION</b> Intermediate incurve. Bright red with copper bronze reverse. Sport of Balcombe Perfection. Short variety. Suggest two extra long day weeks pinch to shade. Form retention superior to Balcombe Perfection. Requires a cool finish. Natural standard for Thanksgiving.	<b>Nov. 18</b>	<b>S-3</b>	<b>CALVERT'S GOLD</b> Intermediate golden bronze semi-incurve. Regular standard crops require one additional long day week. Lights well for winter and spring flowering.	<b>Nov. 20</b>	<b>S-3</b>
	<b>MRS. EISENHOWER</b> A vivid golden bronze spider mum with excellent substance and form. Fully petalled flower. Rigid stems.	<b>Nov. 18</b>	<b>P</b>	<b>BEACON</b> Large semi-incurve. Rich reddish bronze with gold reverse. Has all the substance and durability of Detroit News. <i>Short habit</i> . Frequently blind in winter. Shades well and shows merit for the fall and Thanksgiving season.	<b>Nov. 20</b>	<b>P-1</b>
<b>12 WEEK</b> PINCH AUGUST 15	<b>BRONZE PETER JOHN</b> Large salmon rust decorative suffused with yellow. Requires 60° minimum for bud initiation; 55° for bud development.	<b>Nov. 25</b>	<b>S-1</b>	<b>#2 OAK LEAF—New</b> Tightly incurved sport from Oak Leaf. Vigor, color, and size remain closely identical with Oak Leaf. Available June 6, 1960.	<b>Nov. 25</b>	<b>P-1</b>
	<b>GLADYS PEARSON</b> Intermediate light copper bronze incurve.	<b>Nov. 25</b>	<b>S-2</b>	<b>MUTO'S CRIMSON</b> Intermediate deep crimson incurve. Copper reverse. One of the latest in reds for natural season.	<b>Dec. 1</b>	<b>P</b>
	<b>OAK LEAF</b> Intermediate copper incurve. (Dk. Br. Gladys Pearson.) Valuable for Thanksgiving crops.	<b>Nov. 25</b>	<b>S-2</b>			

TRADEWIND



ROSAMUND



## VARIETIES FOR YEAR-ROUND STANDARDS

### PINK



**8  
WEEK**  
PINCH  
JULY 18

**PINK CHIEF** Oct. 15 S-3  
Large lavender incurve. Tall. Excellent in early spring and natural season. Tolerates 56°. Color fades readily when it gets warm.

**MAJOR BOWES** Oct. 20 S-1  
Intermediate lavender incurve. Short.

**9  
WEEK**  
PINCH  
JULY 25

**BLUE RIBBON** Nov. 1 S-5  
Small bright lavender pink incurved standard.

**MARY GARDEN** Nov. 1 S-1  
A large straight tubed pink spider. Fades in heat.



**MISS AMERICA New** Nov. 1 P-1  
Intermediate semi-incurved standard. Pink. Very heat tolerant. Quite resistant to fading and petal burn. While valuable all spring and summer, it attains maximum size and form perfection in fall single stem crops. Its durability and shipping qualities are excellent.

**BUNBU** Nov. 1 S-2  
Large, fully double, spooned tip spider. Lavender pink. Tall habit permits the reduction of one long day week from the 9-week schedule. Makes a fine companion for Luyona. Shade protection is required in summer plantings to prevent petal tip burn. Bantamum.

**10  
WEEK**  
PINCH  
AUGUST 1

**INDIANAPOLIS PINK** Nov. 5 S-7  
Large pink incurve. Standards, disbuds and large bantamum. A wonderful mum in all but late spring and summer programs where fading and petal burn are known handicaps. Generally the most vigorous of all the Indianapolis varieties.

**J. W. PRINCE** Nov. 5 P  
Intermediate lavender pink incurve.

**RAYONNANTE** Nov. 5 S-2  
Spider. Pink tube. Best adapted to West Coast environments.



**VANGUARD** Nov. 5 P-1  
Intermediate incurved standard. Bright lavender pink. A vigorous Indianapolis seedling with vastly superior color retention under high temperatures. Should not be crowded, and is best suited to high light periods. Benefited by pinching in summer and fall programs.

**ORCHID QUEEN** Nov. 10 S-3  
Large light orchid pink semi-incurve. The parent to the Queen sports.

**LAVENDER QUEEN** Nov. 10 S-3  
Lavender sport of Orchid Queen. Flower more compact and color more intense than that of Dark Orchid Queen.

**DK. ORCHID QUEEN** Nov. 10 S-4  
Large deep lavender semi-incurved standard. An intensified color companion to Orchid Queen which permits it to be flowered later into the high temperature periods with color retention.

**LAUGHTER** Nov. 10 S-3  
Intermediate light lavender pink decorative disbud. Comparable to Bluechip for high temperature finishing. Performs reliably in both the standard and fast disbud programs the year round. Vigorous growth habit. Most efficient grown pinched. Requires 60-65° to initiate buds for spring flowering crops.

MALOU



THE FAVORITE





## VARIETIES FOR YEAR-ROUND STANDARDS

### PINK



Growers Agreement

**10  
WEEK**  
PINCH  
AUGUST 1

Variety—Description	Normal Flowering Date	Price
<b>ROSAMUND—New</b> Medium sized semi-incurved standard. Rose pink with coral overtones. Prolific and responsive, it is good in spring and winter crops. Habit resembles Working Scarlet. For pots, needs tall treatment. Available June 6, 1960.	Nov. 10	P-1

<b>PLUM</b> Large silvery lavender duplex spider. Petal completely tubular and partially incurved. Novel bantam and fast disbud. High summer temperatures interfere with form development.	Nov. 10	S-1
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Variety—Description	Normal Flowering Date	Price
<b>PINK F. SHOESMITH</b> Large incurve. Light pink sport from Fred Shoemsmith. Form is more open and reflexed. Maximum color expression obtained only with cool finish. Best in late fall and Christmas period. Fred Shoemsmith and all of its sports are most reliable when grown as pinched crops.	Nov. 12	P-1



<b>TRADEWIND—New</b> Large bright shell pink semi-incurve standard. Tall, vigorous and productive variety. Form is open and decorative in winter. Cool 60° color best, therefore suitable October through May. Available June 6, 1960.	Nov. 13	P-1
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**11  
WEEK**  
PINCH  
AUGUST 8

<b>ARISTOCRAT</b> Intermediate lavender incurve. Fast stretch and strong stem. Tolerant of 56°.	Nov. 15	P
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<b>CALVERT'S PINK</b> Intermediate orchid pink incurve. Short growth habit.	Nov. 17	S-1
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<b>HELEN FRICK</b> Intermediate light lavender incurve.	Nov. 20	S-1
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<b>THANKSGIVING PINK</b> Intermediate orchid pink decorative.	Nov. 23	S-2
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<b>ED. SEIDEWITZ</b> Intermediate smooth lavender incurve.	Nov. 23	P
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**12  
WEEK**  
PINCH  
AUGUST 15

<b>PINK PETER JOHN</b> Large light orchid pink decorative. Best size of Peter Johns. Standards. 60° minimum for bud initiation; 55° for bud development. Good bantamum.	Nov. 25	S-1
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<b>DK. PK. PETER JOHN</b> Large deep orchid pink decorative. Color intensification of Pink Peter John.	Nov. 25	P
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<b>ROYAL—New</b> Medium to large deep pink decorative. A medium sized standard or large disbud. Lights and shades well, mid-October through mid-April. Available June 6, 1960.	Nov. 25	P-1
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**13  
WEEK**  
PINCH  
AUGUST 22

<b>PINK MISTLETOE</b> Intermediate light pink incurve. Finish cool.	Dec. 5	P
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YELLOW GLORY



BUNBU





## VARIETIES FOR YEAR-ROUND SPRAYS

### WHITE



**7  
WEEK**  
PINCH  
JULY 11

Variety—Description	Normal Flowering Date	Price
<b>HORIZON</b> Intermediate white pompon. Outdoor cut flower. Useful in the early cloth house.	Oct. 5	S-1

Variety—Description	Normal Flowering Date	Price
<b>CLASSIC</b> Small white semi-formal pompon. Outdoor cut flower.	Oct. 10	P

**8  
WEEK**  
PINCH  
JULY 18

<b>BLIZZARD</b> Small white formal pompon. Tolerates 56°.	Oct. 15	S-1
<b>ECHO</b> Paper white formal pom of intermediate size. Flowers as early as Blizzard. Recommended for greenhouse and outdoor cut flower.	Oct. 15	S-1

<b>PRISTINE</b> Intermediate pure white pompon. A mainstay for early cloth house and greenhouse spray crops. Initiates buds at 56°.	Oct. 20	S-4
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**9  
WEEK**  
PINCH  
JULY 25

<b>POPCORN</b> Intermediate white pompon. Light pink at low temperatures.	Oct. 25	S-1
<b>WHITE POPCORN</b> White sport of Popcorn. No trace of pink in flower at low temperatures.	Oct. 25	S-3
<b>KEEPSAKE</b> White pompon. Fine high temperature perform- ance. Light pink suffusions at low temperature. Wide temperature tolerance for initiation.	Oct. 25	S-3
<b>WHITE KEEPSAKE</b> Intermediate ivory pompon. Selection from Keep- sake. Devoid of pink tinges at low temperatures. At high temperature finish, more ivory than Keep- sake. Will tolerate 56°.	Oct. 25	S-3
<b>SONGSTER</b> Intermediate white pompon. Withstands heat well.	Oct. 25	S-1
<b>PINOCCHIO</b> Small pure white button pompon. Formal and distinctive. Excellent for June weddings.	Oct. 25	S-4
<b>VESTA</b> A small but trim white button pompon for sum- mer and early fall flowering.	Oct. 25	P

<b>CRYSTALLITE</b> Intermediate formal pompon. Paper white. Re- sponse is uniform and rapid at 60° or over.	Oct. 25	S-2
<b>SILVERTONE</b> Intermediate early white daisy. Fine high tempera- ture performance. Tolerates 56°. One of our most low temperature tolerant daisies.	Oct. 25	S-1
<b>SILVER BOW</b> Large white formal disbud pompon.	Oct. 25	S-1
<b>MEMENTO</b> Intermediate chalk white single with green discs and durable petals that retain their original form into maturity. Tolerates both low and high tem- peratures for bud development. Increasingly popu- lar for cloth house and greenhouse.	Oct. 30	S-2
<b>HALO</b> White daisy for high temperature periods in the greenhouse.	Nov. 1	S-2
<b>SEA GULL</b> Intermediate ivory pompon.	Nov. 1	S-1

**SUPERTOP**



**CRYSTALLITE**



## VARIETIES FOR YEAR-ROUND SPRAYS

### WHITE



Growers Agreement

**9  
WEEK**  
PINCH  
JULY 25

Variety—Description	Normal Flowering Date	Price
<b>ALASKA</b> Intermediate white anemone with white cushion. Low temperature tolerance of Shasta. Regular and Fast spray programs for greenhouse and cloth house. Better cushion development than Shasta in summer temperatures.	Nov. 1	S-4
<b>WHITE DOTY</b> Large white pompon. An All Saint's Day variety for natural flowering crops.	Nov. 1	S-1

Variety—Description	Normal Flowering Date	Price
<b>THISTLEDOWN</b> Medium to small, novel clear white decorative pompon. An improved Snowdrift flower. Fully double form. Wider sprays.	Nov. 1	S-3
<b>CAMILLE BAUMANN</b> Medium to large single disbud. White spindle on tubular ray petals. Novel form for fast disbud programs. High summer temperatures contribute to size reduction and delay in response.	Nov. 3	P

**10  
WEEK**  
PINCH  
AUGUST 1

<b>WHITETOP</b> Intermediate chalk white decorative. Productive and dependable. Top notch white. Requires dis-spray treatment for best summer results. Intolerant of less than 60° for bud initiation. A good shipper because of its resistance to petal botrytis.	Nov. 5	S-7
<b>SUPREME WHITETOP</b> Large white decorative. Whitetop sport with increased size and less reflexing. Stem quality and production also somewhat better.	Nov. 5	S-3
<b>SUPERTOP New</b> White decorative. This is THE Whitetop selection to date. It is the largest and most beautiful decorative form of all the Whitetop sports. Its increased size is combined with a flat form that does not reflex. Equal in vigor and production to Whitetop. A superb sport that will eventually replace both Whitetop and Supreme Whitetop.	Nov. 5	P-1
<b>TIPTOP</b> A distinctive tubular petalled form mutation from Whitetop. Pure white. Fine substance. Does not shatter. Same periods of use as Whitetop.	Nov. 5	S-4
<b>FEATHERTOP</b> A deeply feathered sport from Whitetop. Chalk white with smart green eye.	Nov. 5	S-3
<b>ICEBERG</b> Large white pompon. Tall vigorous growth. Improved by center bud removal. One of few poms which develops well in the heat of summer. Requires a minimum of 60° for bud initiation.	Nov. 5	S-8



<b>MADONNA</b> Intermediate white pompon. Performs best in the warm environments of summer cloth house and greenhouse.	Nov. 5	P
<b>PING PONG</b> Small formal pompon. Clear white. A very hard, round and durable flower. Strong, rigid stem and terminal spray. Does not shatter. A large Pinocchio.	Nov. 5	P-1
<b>ENCORE</b> Intermediate white pompon. Superb form and rigid growth. Pinks at low temperatures. Requires 60° minimum for bud initiation.	Nov. 5	S-3
<b>ENSIGN</b> Intermediate decorative disbud. A white bonnafon seedling of excellent substance.	Nov. 10	S-1
<b>PACESETTER</b> Intermediate pure white single. Short habit.	Nov. 10	S-2
<b>ICE CREAM</b> Intermediate decorative with 3-4" diameters. White to cream depending upon temperature. As large a disbud as Iceberg.	Nov. 10	P
<b>ILLINI IGLOO</b> Intermediate ivory white pompon. Good for outdoor shading. Formal and durable. Tolerates 56°.	Nov. 10	S-5

VISCOUNT



DAWN STAR



## VARIETIES FOR YEAR-ROUND SPRAYS

## WHITE



Growers Agreement

**10  
WEEK**  
PINCH  
AUGUST 1

Variety—Description	Normal Flowering Date	Price
<b>SHASTA</b> Large white anemone. Tolerates 56°. Very dependable. Develops maximum cushion in cool finishes. Flower bud development is inclined to stall when summer temperatures soar.	Nov. 10	S-7
<b>LITTLE AMERICA</b> Intermediate pure white anemone. Needs an additional long day week for Regular crops.	Nov. 10	S-4
<b>VISCOUNT</b> Large white semi-anemone. Substance improves Shasta and Alaska. Develops the vigor of Iceberg. A practical, high temperature insensitive white anemone. Pink in low temperature.	Nov. 10	P-1
<b>WHITE PENNANT—New</b> Pure white sport from Pennant. Same good growth and response. Performs well in north.	Nov. 10	P-1
<b>CHALK CLIFF</b> Large chalk white decorative. Growth habit same as Portrait. High temperature finish stalls bud development. Recommend disspray treatment.	Nov. 10	S-4

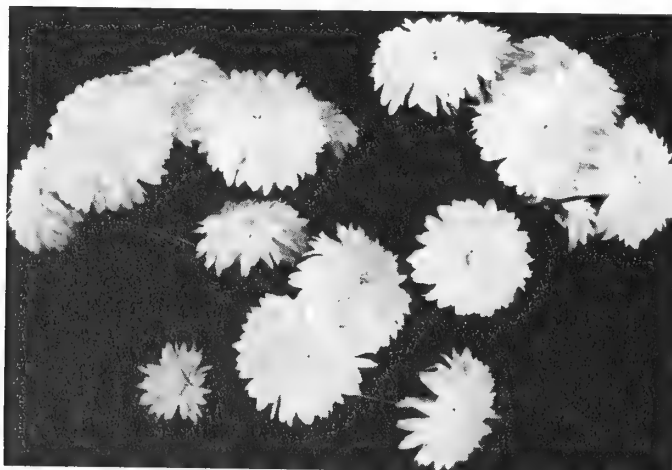
Variety—Description	Normal Flowering Date	Price
<b>DAWN STAR New</b> Intermediate pompon. Pure white. Hard formal pompon with more open spray and greater color clarity than Iceberg. Growth is strong and whippy but not as heavy and vegetative. Production is very high. Its substance and form class it as a smaller, more formalized version of Iceberg. Has excellent low and high temperature tolerance. No shattering or Pythium disorders have ever been observed. A very fine keeper and shipper in April through mid November.	Nov. 10	P-1
<b>STARDUST</b> Formal white pom of intermediate size. Establishes a larger and more shapely Keepsake form. A clean vigorous habit that rarely overcrops or delays. Tolerates 56° minimum.	Nov. 12	S-4
<b>ILLINI SNOWDRIFT</b> Novelty, intermediate, feathered white decorative. Valuable in artistic arrangements.	Nov. 12	S-4

**11  
WEEK**  
PINCH  
AUGUST 8

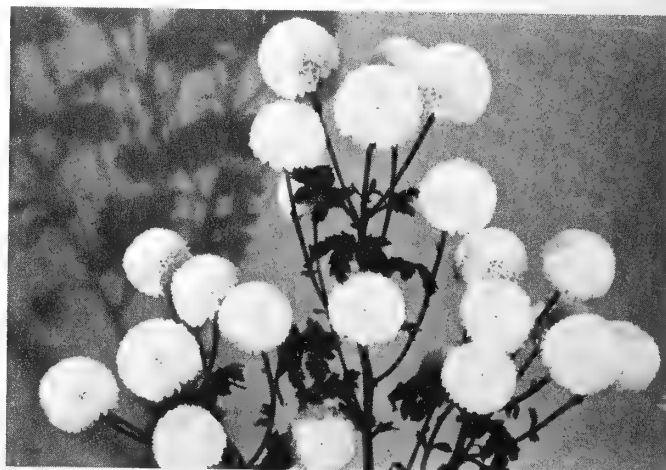
<b>WHITE TAFFETA</b> Pure white sport. Most valuable of the Taffeta group.	Nov. 15	S-4
<b>SCULPTURE</b> Large ivory white daisy.	Nov. 15	S-1
<b>WHITE NORMA</b> Large anemone. White rays and yellow cushion. Grown as disspray for natural bloom.	Nov. 15	P
<b>ILLINI STARFLOWER</b> Large semi-anemone spoon. A white novelty single for retail growers.	Nov. 18	P
<b>GRECO'S CARNATION</b> Intermediate white pompon. Petals are finely serrated. Short habit.	Nov. 20	S-1

<b>JOHN BAUMANN</b> Large paper-white spider. Duplex form. Partially spooned petals. Fine winter performer in the North.	Nov. 20	P
<b>LONG ISLAND BEAUTY</b> Large white anemone. Yellow cushion. Tolerates 56°.	Nov. 20	S-2
<b>HIGHBROW</b> Ivory white decorative. Very productive.	Nov. 20	S-3
<b>NEVADA</b> Intermediate white anemone. Chartreuse cushion.	Nov. 20	S-1
<b>PRISCILLA</b> Intermediate clear white pompon.	Nov. 20	S-2

JUPITER



PING PONG



## VARIETIES FOR YEAR-ROUND SPRAYS

### WHITE



Growers Agreement

**11  
WEEK**  
PINCH  
AUGUST 8

Variety—Description	Normal Flowering Date	Price
<b>ERMINE</b> Large white pompon. Cream-eyed centers. Extra tall. Requires one less long day week.	Nov. 20	S-1
<b>JUPITER</b> Large decorative. Pure white. A vigorous spray variety well suited to Regular and Fast crops. Of Iceberg size and Belray color clarity. Temperature tolerance of Iceberg.	Nov. 20	P-1
<b>ILLINI BOUNTIFUL</b> Small ivory pompon.	Nov. 23	P
<b>PARAMOUNT</b> Intermediate ivory white pompon. Valued for its formal form.	Nov. 23	S-4

Variety—Description	Normal Flowering Date	Price
<b>SURFSIDE</b> Large single. A clear white. Extra wide petals and green discs. More vigor and substance than Illini Alba or Sculpture. Tolerates 56° minimum.	Nov. 23	S-1
<b>BELRAY</b> Large white pompon. Tall grower. Remove center buds. Bud development slowed by high temperatures. Tolerates 56°. Regular crop.	Nov. 24	S-4
<b>CARRARA</b> Intermediate pure white decorative. A short variety that needs a cool finish. Tolerates 56°.	Nov. 24	S-1

**12  
WEEK**  
PINCH  
AUGUST 15

<b>WHITE PRINCESS</b> Pure white button. Sport from Princess. Well suited to the late cloth house and greenhouse.	Nov. 25	P
<b>SILVERCREST</b> Small white formal pompon. Improves the appearance and quality of Snowcrest.	Nov. 25	S-1
<b>ILLINI PEACE</b> A productive white anemone for Thanksgiving.	Nov. 25	P
<b>WHITE LADY</b> White sport of Beautiful Lady.	Nov. 25	P
<b>CHAMP</b> Large white anemone. Growth is clean and vigorous.	Nov. 28	S-3

<b>WHITE VALENCIA</b> Large white single. Requires high temperatures for bud initiation and cool finish.	Nov. 28	S-2
<b>CORDOVA</b> Intermediate white pompon. Natural season.	Nov. 30	P
<b>FORTUNE</b> Formal white pompon. An outstanding quality flower.	Dec. 1	S-3
<b>ILLINI GLACIER</b> Medium anemone. Clear white with white cushion. Improves Long Island Beauty.	Dec. 1	P

**13  
WEEK**  
PINCH  
AUGUST 22

<b>CAMEO</b> Intermediate ivory decorative.	Dec. 5	S-1
<b>WHITE ENCHANTRESS</b> Large white disspray anemone. Pinks in cool finish.	Dec. 5	P

<b>ACCLAIM</b> Large formal type pompon. Lights and shades well. An ivory white Corsair. Excellent with cool 60°. Pinched crops improve grade uniformity.	Dec. 5	S-5
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ELEGANCE



COSSACK



## VARIETIES FOR YEAR-ROUND SPRAYS

### WHITE



**13  
WEEK**  
PINCH  
AUGUST 22

Variety—Description	Normal Flowering Date	Price
<b>SPANGLES</b> Small white pompon. A late white Sunnyside.	Dec. 5	P
<b>SNOWSTORM</b> A white decorative pom of medium size. Responsive and low temperature tolerant winter pom. Best dissprayed and grown single stem.	Dec. 5	S-2
<b>ILLINI ALBA</b> Intermediate chalk white daisy. No tendency to pink either from low temperature or aging. Easily grown and of clean habit. Tolerates 56°.	Dec. 5	P
<b>NORTHWIND</b> Medium to large pure white single. Extra vigorous for a winter pom. Require 62-65° minimum for February flowering.	Dec. 8	P
<b>WHITE SNOWDROP</b> Pure white sport of Snowdrop. Does not pink.	Dec. 8	S-1
<b>ILLINI STARLET</b> Intermediate white anemone. Improves Garza in form, growth and clarity of color.	Dec. 10	S-1
<b>IMP. WHITE SUPREME</b> Large white anemone. Finish cool.	Dec. 10	S-1

Variety—Description	Normal Flowering Date	Price
<b>YUKON</b> Intermediate chalk white single. Tolerates 56°.	Dec. 10	P
<b>ICECAP</b> Intermediate chalk white pompon. Does not pink. Will initiate and develop at 56° although, equally as valuable in 60° programs. Because of its extra vigor, best treated as a 14 week variety.	Dec. 5	S-5
<b>SATELLITE</b> Intermediate cream white pompon. Very tolerant of cool 60°.	Dec. 13	S-1
<b>DOLOMITE</b> Intermediate clear white pompon. Adds quality and color clarity to the December season. Tolerates 56°.	Dec. 13	S-1
<b>SNOWCREST</b> Small white button pompon. Distinctive green eye. Responsively uniform in cool 60°.	Dec. 13	S-2
<b>WHITE MINSTREL—New</b> White sport of Minstrel. Slightly less vegetative and more uniform than parent. Most dependable on raised benches mid-November through December. Available June 6, 1960.	Dec. 13	P-1

**14  
WEEK**  
PINCH  
AUGUST 29

<b>TRENTON</b> Good form and substance. An intermediate white pompon for natural flowering.	Dec. 15	S-1
<b>SILVERSMITH</b> Intermediate pure white decorative. Improved by cool 60° environments.	Dec. 15	S-4
<b>SNOWCAP</b> Large formal white pompon. When grown at a 60° minimum night temperature, this is one of the outstanding flowers available to winter spray programs.	Dec. 15	S-3

<b>GARZA</b> Intermediate white anemone.	Dec. 15	S-3
<b>ELEGANCE</b> Intermediate white decorative. Flowers naturally for Christmas. Clean growth with high production. Too short and clubby in late January and February.	Dec. 20	S-3
<b>HEIRLOOM</b> Intermediate white decorative.	Dec. 20	P
<b>WEDDING BELLS</b> A small to medium white formal pompon. Purer white than Snowcrest.	Dec. 20	S-1

CORONATION



GORDON WELLS





## VARIETIES FOR YEAR-ROUND SPRAYS

### WHITE



Growers Agreement

**15  
WEEK**
**PINCH  
SEPT. 5**

Variety—Description	Normal Flowering Date	Price
<b>REVELATION</b> Intermediate white decorative. Excellent for late natural flowering with 50° finish.	<b>Dec. 25</b>	<b>S-4</b>
<b>SNOW</b> Intermediate white pompon. Requires 60° for initiation.	<b>Dec. 25</b>	<b>S-3</b>
<b>TALMEDA</b> Intermediate white pompon. Improves Revelation. Just about the latest white pompon. Good form and substance.	<b>Jan. 5</b>	<b>S-2</b>

Variety—Description	Normal Flowering Date	Price
<b>ILLINI CASCADE</b> Large clear white decorative. Finishes well at high 60° or low 50° temperature. Valuable natural or lighted in winter.	<b>Jan. 5</b>	<b>S-3</b>
<b>ILLINI SNOWBOUND</b> Large informal white decorative with cream center. Requires 60° initiation and 50° development.	<b>Jan. 5</b>	<b>S-1</b>

### YELLOW

**7  
WEEK**
**PINCH  
JULY 11**

<b>POLARIS</b> An early golden buff daisy. Arctic hybrid. Background garden variety and October cut flower.	<b>Oct. 5</b>	<b>P</b>
<b>LEE POWELL</b> Large golden yellow decorative. Vigorous background variety for garden cut.	<b>Oct. 10</b>	<b>P</b>

<b>TREASURE</b> Small deep yellow pompon. Upright habit. Fine cut flower for early and natural cloth house and greenhouse.	<b>Oct. 10</b>	<b>P</b>
<b>BRIGHT FORECAST</b> Very formal yellow pompon. Outstanding flower quality. Background for gardens and outdoor cut flower.	<b>Oct. 10</b>	<b>S-1</b>

**8  
WEEK**
**PINCH  
JULY 18**

<b>YELLOW CALUMET</b> Lemon yellow sport of Calumet. Intermediate pompon.	<b>Oct. 15</b>	<b>P</b>
<b>SUNBURST</b> Golden yellow decorative.	<b>Oct. 20</b>	<b>P</b>



<b>TOPFLIGHT</b> Medium to small bright yellow anemone. Well defined cushions without reflexing ray petals. Tolerates 54° for initiation and high summer temperatures for development. A choice 8-week variety for cloth house and greenhouse.	<b>Oct. 20</b>	<b>P</b>
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**9  
WEEK**
**PINCH  
JULY 25**

<b>STARLIGHT</b> Large yellow daisy. Intolerant of extreme heat. Natural sprays for greenhouse.	<b>Oct. 25</b>	<b>P</b>
<b>GOLDEN HERALD</b> Large yellow decorative. Tolerates 56°. Disspray for greenhouse and cloth house.	<b>Oct. 25</b>	<b>S-3</b>

<b>GOLD COAST</b> Intermediate formal pompon. Deep lemon. Tolerates 56° for bud initiation and makes the most vigorous growth under cool environments. Excessive summer bud development requires disspray work.	<b>Oct. 25</b>	<b>S-5</b>
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FLAIR



YELLOWCHIP





## VARIETIES FOR YEAR-ROUND SPRAYS

### YELLOW



**9  
WEEK**

**PINCH  
JULY 25**

Variety—Description	Normal Flowering Date	Price
<b>YELLOW DOT</b> Small pompon. Two-tone with golden bronze eye in cool finish.	Oct. 25	P
<b>YELLOW KEEPSAKE New</b> Rich yellow sport from Keepsake. Performance is identical with its well known parent.	Oct. 25	P
<b>YELLOW SILVERTONE</b> Intermediate deep lemon yellow daisy. Sport from Silvertone.	Oct. 25	P-1
<b>HAPPINESS</b> Large golden yellow single having broad, flat ray petals. Reliable in high temperature summer greenhouses. Tolerates 56° for early spring flowering.	Oct. 28	S-3
<b>SUNUP</b> Small deep yellow pompon. Withstands high temperatures and heavy cropping in greenhouse and cloth house.	Oct. 28	S-1
<b>SAUTERNE</b> Intermediate intense yellow single. Tolerates 56°.	Oct. 30	S-2
<b>YELLOW HALO</b> Sport of Halo. Intermediate single, deep lemon yellow. Tolerates 56°.	Nov. 1	P
<b>SCHN. YELLOW DAISY</b> Intermediate yellow single.	Nov. 1	S-1
<b>DANDY</b> Intermediate yellow pompon. Will initiate buds at 56°. Production of Gold Coast. Benefited by center bud removal.	Nov. 1	S-3
<b>#2 DANDY—New</b> Golden yellow pompon. An intensified color sport from Dandy. Form is less subject to blowing. Vigor and habit remain the same.	Nov. 1	P

Variety—Description	Normal Flowering Date	Price
<b>FLAIR—New</b> Intense yellow daisy. Few assets are more important to good daisies than substance, shipping quality, performance and long retention of bright green eyes. Flair has these fresh, appealing traits in abundance. Response is dependably uniform and reflects its low temperature tolerance.	Nov. 1	P-1
<b>STATESMAN</b> Small intense yellow pompon. Tolerant to high temperatures. Flowers will not stick. Tolerates 56°.	Nov. 1	S-2
<b>YELLOWCHIP—New</b> Bright lemon yellow sport of Bluechip. The only clear yellow sport of Bluechip that shows no traces of bronze in fall or early spring. As companion for Bluechip it is a real bellringer for May through mid November crops. Florida tests have been consistently outstanding.	Nov. 1	P-1
<b>YELLOW DOTY</b> Large deep bronzy yellow pompon.	Nov. 1	P
<b>STARBRIGHT</b> Large deep lemon single. Intolerant to high temperature flower development.	Nov. 1	P
<b>YELLOW SEA GULL</b> Intermediate deep lemon pompon.	Nov. 1	P
<b>BRILLIANCY</b> An Aztec yellow intermediate single contrasted with green discs. Rigid stems. Balanced spray formation. A daisy of distinctive class and productive capacity. Excessive high temperatures will delay development.	Nov. 1	S-1
<b>SUNRAY</b> Small yellow anemone. Tolerates 56°. Short.	Nov. 3	S-1
<b>HONEYMOON</b> Large clear yellow daisy. Recommended for greenhouse and cloth house.	Nov. 4	P

**VANGUARD**



**GOLDEN BANTAM**



## VARIETIES FOR YEAR-ROUND SPRAYS



## YELLOW



Growers Agreement

**10  
WEEK**
**PINCH  
AUGUST 1**

Variety—Description	Normal Flowering Date	Price
<b>BARCAROLE</b> Intermediate lemon pompon. Greenhouse.	Nov. 5	P
<b>YELLOW TIPTOP—New</b> Deep lemon yellow sport from Tiptop. Identical with the parent variety in all respects except color. Will be a valuable supplement to the Whitetop varieties.	Nov. 5	P-1
<b>YELLOWTOP</b> Lemon yellow sport from Whitetop. Used extensively in cloth house and greenhouse. Benefits from partial disspray in summer.	Nov. 5	S-4
<b>GOLDTOP</b> Intermediate pompon. Deep lemon yellow. A color improvement over Yellowtop. Flower has a pronounced green eye and is more ball shaped than Yellowtop.	Nov. 5	P-1
<b>AZTEC</b> Intermediate deep yellow daisy. Tolerant of 56°.	Nov. 5	P
<b>MARY HALL</b> Intermediate deep lemon pompon. Tolerates high temperatures well. Tolerates 56°.	Nov. 5	S-2
<b>CRESCENDO</b> Large yellow pompon. Well known variety for high temperature periods. Tall. Tinges bronze with low temperature finishes.	Nov. 5	S-4
<b>CONSTELLATION</b> Intermediate decorative. Brilliant yellow. Given one additional long day week, it is unsurpassed in natural season.	Nov. 5	P
<b>YELLOW BEAUREGARD</b> Intermediate pompon. Clear golden yellow at all temperatures. Selection from Orange Beauregard and identical habit. Temperature tolerance of parent variety. Especially valuable in summer greenhouse and cloth house programs. Tolerates 56°. Sprays are clubby if flowered much earlier than May.	Nov. 5	S-5

Variety—Description	Normal Flowering Date	Price
<b>YELLOW ICEBERG</b> Clear lemon yellow sport from Iceberg. Closely identical to parent variety. Valuable for high temperature periods. Spray programs are always benefited by early center bud removal. Fine cloth house variety. Intolerant of less than 60° for bud initiation.	Nov. 5	S-7
<b>#2 YELLOW ICEBERG—New</b> Deep yellow sport from Yellow Iceberg. As well as intensified color this sport displays a small improvement in size and form over the original Yellow Iceberg. It should eventually replace the original Yellow Iceberg and become recognized as the best in its class.	Nov. 5	P-1
<b>GOLDBERG</b> Large pompon. Golden yellow sport from Yellow Iceberg. Color intensification over Yellow Iceberg. Flower is harder, more double and slightly smaller. Improved bench keeping qualities with smarter winter flower form.	Nov. 5	P-1
 <b>SUNFIRE</b> Medium to large single. Dark yellow. Wide petals are tubed at their base. Retains its green-eyed disc. Well-balanced terminal sprays with rigid stemmed growth.	Nov. 5	S-1
 <b>GOLDEN BANTAM</b> Small pompon. Deep golden yellow. Its heavy production without sticking at high temperature; its superb form retention coupled with intense color and durability rank it without peer among small yellow poms.	Nov. 5	P-1
<b>LUXURY</b> Large decorative. Clear yellow in the summer. Bronze overtones in spring and fall.	Nov. 8	S-2
<b>CREAM SHASTA</b> Beautiful cream yellow color. Tolerates 56°. Most vigorous of the Shastas.	Nov. 10	S-1

CHARM



SHANE



## VARIETIES FOR YEAR-ROUND SPRAYS

## YELLOW



Growers Agreement

10  
WEEKPINCH  
AUGUST 1

Variety—Description	Normal Flowering Date	Price
<b>YELLOW SHASTA</b> Large light lemon yellow anemone. Tolerates 56°. Like its parent 60° environment allows for best cushion development. High summer temperatures will delay flower development.	Nov. 10	S-7
<b>GOLDEN SHASTA</b> Large deep yellow anemone. Intensifies color of Yellow Shasta. Less quilling of ray petals. Same vigor. There are two Golden Shasta varieties. This one is the best.	Nov. 10	P-1
<b>JEALOUSY</b> Small pompon. Intense yellow, bright green eye. Hard, ball type. Will develop green bracts under extreme heat.	Nov. 10	S-1
<b>YELLOW IGLOO</b> Intermediate deep lemon yellow pompon. Selection from Illini Igloo. Same habit and temperature tolerance. Tolerates 56°.	Nov. 10	S-4

Variety—Description	Normal Flowering Date	Price
<b>HEYDAY</b> Intermediate bright yellow pompon. Will initiate and develop its buds well at 56°. Characterized by open terminal sprays at any time of the year. Very high summer greenhouse temperatures will cripple form. More reliable than Yellow Iceberg for early spring flowering where 60° minimums cannot be maintained.	Nov. 10	S-6
<b>YELLOW PACESETTER</b> Lemon yellow single. Short habit.	Nov. 10	S-1
<b>YELLOW ILL. SNOWDRIFT</b> Small novelty decorative. Yellow. Slightly less vigorous during marginal light periods.	Nov. 12	S-3
 <b>FANFARE</b> Golden yellow intermediate anemone for natural spray poms. For same period that Crescendo is flowered. Finishing temperature less than 60° induces bronze tinges. Vigorous habit. Can use one less long day week.	Nov. 14	S-1

11  
WEEKPINCH  
AUGUST 8

<b>SOUVENIR</b> Intermediate dark yellow daisy with an early 11-week response. Has all the traits to give it a "Superior" rating for shaded or lighted crops.	Nov. 15	P
<b>YELLOW SCULPTURE</b> Lemon yellow daisy. Sport of Sculpture.	Nov. 15	P
<b>PRINCETON</b> Intermediate golden decorative.	Nov. 15	P
<b>GOLDEN CHORD</b> Intermediate pompon. Intense golden yellow. Requires 60° for initiation. A superlative late cloth house as well as greenhouse variety.	Nov. 15	S-3
<b>FORTY-NINER</b> Intermediate brilliant golden yellow pompon. Requires 60° for initiation and high light intensity for maximum production. Popularized for fall and winter flowering in Florida cloth houses where form and color has no equal.	Nov. 15	S-5

<b>ESQUIRE</b> Intermediate deep yellow decorative. Strong, trim habit. Tolerates 56°. Dependable within a wide range of temperatures.	Nov. 15	S-3
<b>GOLD BALL</b> Intermediate golden yellow pompon. Size of Corsair. Temperature tolerance improves Golden Chord and Forty Niner.	Nov. 15	S-4
<b>SUSANNE MILLER</b> Large anemone. Deep yellow cushion. Norma sport. Tolerates 56°.	Nov. 15	P
<b>YELLOW TAFFETA</b> Intermediate lemon yellow sport from Taffeta. Maximum color is expressed in late fall and early spring flowering.	Nov. 15	S-1

ILLINI ALBA



SPUNGOLD



## VARIETIES FOR YEAR-ROUND SPRAYS

### YELLOW



**11  
WEEK**

**PINCH  
AUGUST 8**

Variety—Description	Normal Flowering Date	Price
<b>ETUDE</b> Large semi-formal pompon. A rich yellow. Represents continued improvement in productive vigor and early spring response. Spray is benefited when center bud is removed. The "Corsair" of the 11-week yellows.	Nov. 15	S-4
<b>SHANE</b> Intermediate to large anemone. Deep golden yellow. Shane is an excellent answer for a late fall, winter and spring dark Yellow Shasta. Stronger in habit and vigor, deeper in color. Represents marked progress in spray types for northern programs.	Nov. 15	P-1
<b>ILLINI BON BON</b> Small dark yellow anemone.	Nov. 18	P
<b>ILLINI GOLDRIFT</b> Intermediate feathered decorative. Bright golden yellow. Form closely resembles Illini Snowdrift. Growth is clean and stronger. Flower is larger and fully double.	Nov. 18	P-1
<b>YELLOW L.I. BEAUTY</b> Large lemon anemone. Tolerates 56°.	Nov. 20	S-1
<b>YELLOW Highbrow</b> Sport of Highbrow. Intermediate golden yellow pompon. Requires 60° for initiation.	Nov. 20	S-2

Variety—Description	Normal Flowering Date	Price
<b>LOLLIPOP</b> Lemon yellow pompon. Formal, round and hard. Has a long season of usefulness.	Nov. 20	S-3
<b>PIPPIN</b> Intermediate yellow pompon. Produces heavily.	Nov. 20	S-2
<b>KLONDIKE</b> An orange yellow pompon. Give one additional long day week to add height.	Nov. 20	S-2
<b>YELLOW NEVADA</b> Intermediate light lemon anemone. Companion to Nevada for November.	Nov. 20	P
<b>ILLINI SUNSPOT</b> Large yellow formal pompon. Responds well to disbudding. Semi-short.	Nov. 20	P
<b>SULTAN</b> Large formal decorative. Golden yellow to amber.	Nov. 22	P
<b>YELLOW PARAMOUNT</b> Deep yellow sport of Paramount. Important for Thanksgiving.	Nov. 23	S-3
<b>GOLDEN PARAMOUNT</b> Intermediate formal pompon. Intense golden yellow. Sport from Yellow Paramount.	Nov. 23	P-1

**12  
WEEK**

**PINCH  
AUGUST 15**

<b>GOLDENROD</b> Solid light yellow pompon.	Nov. 25	P
<b>GOLDSMITH</b> Large golden yellow decorative. Requires 60° for initiation. Best with 3-5 flowers per spray.	Nov. 25	S-4
<b>HIGHLANDER</b> Intermediate intense yellow decorative.	Nov. 25	S-2
<b>SUNNYSIDE</b> Intermediate deep lemon pompon. Formal.	Nov. 25	S-3

<b>ILLINI WAMPUM</b> Bright yellow anemone with greenish yellow cushion.	Nov. 25	S-1
<b>YELLOW VALENCIA</b> Large yellow single. Best vigor and form of Valencia family.	Nov. 28	S-2
<b>YELLOW FORTUNE</b> Deep yellow sport of Fortune.	Dec. 1	S-1
<b>OMEGA</b> Intermediate deep lemon pompon. Best in warm 60° units.	Dec. 1	S-2

#2 YELLOW ICEBERG



RED STAR



## VARIETIES FOR YEAR-ROUND SPRAYS

## YELLOW



Growers Agreement

**12  
WEEK**  
PINCH  
AUGUST 15

Variety—Description	Normal Flowering Date	Price
<b>YELLOW GALAXY</b> Sport of Galaxy. Deep lemon yellow. For 60° units in northern winter programs.	Dec. 1	S-3

Variety—Description	Normal Flowering Date	Price
<b>GOLDEN FORTUNE—New</b> Golden yellow sport from Fortune. Fine color improvement over parent, but similar in growth habits. Available June 6, 1960.	Dec. 1	P-1

**13  
WEEK**  
PINCH  
AUGUST 22

Variety—Description	Normal Flowering Date	Price
<b>CORONATION</b> Intermediate to large decorative. Intense golden yellow. The sprays bunch well. Benefited by removal of center bud. Tolerates 56°.	Dec. 5	S-3
<b>YELLOW ACCLAIM</b> Yellow sport from Acclaim. Most uniform grown pinched.	Dec. 5	S-2
<b>GOLDEN ACCLAIM</b> Intermediate golden yellow selection from Acclaim. Intensifies Yellow Acclaim. Tolerates cool 60° well. Most uniform grown pinched.	Dec. 5	S-3
<b>YELLOW CAMEO</b> Intermediate lemon decorative.	Dec. 5	P
<b>YELLOW ENCHANTRESS</b> Large disspray anemone. Bright golden buff.	Dec. 5	P



Variety—Description	Normal Flowering Date	Price
<b>CINDERELLA</b> Intermediate golden yellow single. Short.	Dec. 5	P
<b>SPUNGOLD</b> Intermediate single. Deep lemon yellow. Its stocky, rigid growth, high production and good substance make it a valuable winter variety.	Dec. 8	P-1
<b>DARK YELLOW SATELLITE</b> Dark yellow sport from Yellow Satellite. Crisp, formal pompon.	Dec. 10	S-1
<b>IMP. YELLOW SUPREME</b> Large yellow anemone. Disbud. Tall.	Dec. 10	P
<b>CORSAIR</b> Large yellow pompon. Requires 63-65° minimums for late January and February flowering. Known for vigor and productivity.	Dec. 12	S-5
<b>YELLOW SNOWCREST</b> A clear yellow Snowcrest sport. Bright green eye.	Dec. 13	S-1

**14  
WEEK**  
PINCH  
AUGUST 29

Variety—Description	Normal Flowering Date	Price
<b>ILLINI BRIGHTYES</b> Intermediate anemone. Lemon yellow ray; dark yellow cushion. Terminal sprays. Requires 60° for initiation. Production is average. Quality high.	Dec. 15	S-1
<b>YELLOW GARZA</b> Intermediate anemone. Lemon yellow.	Dec. 15	S-1
<b>SHAMROCK</b> Large yellow decorative.	Dec. 15	S-2
<b>DECEMBER GOLD</b> Large deep golden yellow pompon.	Dec. 15	P
<b>GOLDEN ELEGANCE</b> Intermediate lemon yellow decorative. A sport from Elegance. Matures naturally for Christmas. Too short for January and February.	Dec. 20	S-3

Variety—Description	Normal Flowering Date	Price
<b>SUN VALLEY</b> Intermediate to large intense yellow pompon. Strong grower. Requires 60° for initiation. A week later than Corsair.	Dec. 20	S-3
<b>VIBRANT</b> Intermediate deep lemon decorative. Disspray.	Dec. 20	S-3
<b>SUNRISE</b> A yellow pompon best described as a late Gold Coast. Sunrise is not sensitive to low night temperatures.	Dec. 20	S-1
<b>GOLDEN ANNIVERSARY</b> Small intense yellow pompon.	Dec. 24	P

TUNEFUL



TANFASTIC





## VARIETIES FOR YEAR-ROUND SPRAYS

### YELLOW

**15  
WEEK**

**PINCH  
SEPT. 5**

Variety—Description	Normal Flowering Date	Price
<b>SIREN</b> A deep yellow decorative. Smaller than Vibrant but very similar to it and flowers later.	Dec. 25	S-2
<b>YULEFLAME</b> Large decorative. Deep lemon.	Dec. 25	S-2
<b>YELLOW SNOW</b> Intermediate yellow pompon.	Dec. 25	S-2

Variety—Description	Normal Flowering Date	Price
<b>GOLDEN SNOWBOUND</b> Intermediate golden yellow decorative. 60° initiation. 50° development.	Jan. 5	S-1
<b>ILLINI YEL. SNOWBOUND</b> Yellow sport of Snowbound. Requires 60° for initiation and 50° for development.	Jan. 5	S-1

### BRONZE AND RED

**7  
WEEK**  
**PINCH  
JULY 11**

<b>HUNTSMAN</b> Red bronze decorative. Background garden variety.	Oct. 5	P
<b>RED VELVET</b> Intermediate crimson red decorative. For early outdoor cut.	Oct. 10	P

<b>CARMINE QUEEN</b> Carmine red pompon. Outdoor cut flower.	Oct. 10	P
<b>CARNIVAL</b> Large pompon. Glowing orange red. Background garden variety for cut.	Oct. 10	P

**8  
WEEK**  
**PINCH  
JULY 18**

<b>CALUMET</b> Apricot bronze pompon. Spring and fall greenhouse and cloth house crop. Background plantings for gardens and outdoor cut. Tolerates 56°.	Oct. 15	S-1
<b>DARK CALUMET</b> Dark bronze sport of Calumet. Intermediate pompon. Early outdoor cut variety.	Oct. 15	P
<b>RAJAH</b> Large crimson red daisy. Natural cut flowers outdoors and greenhouse. Background garden variety.	Oct. 15	P

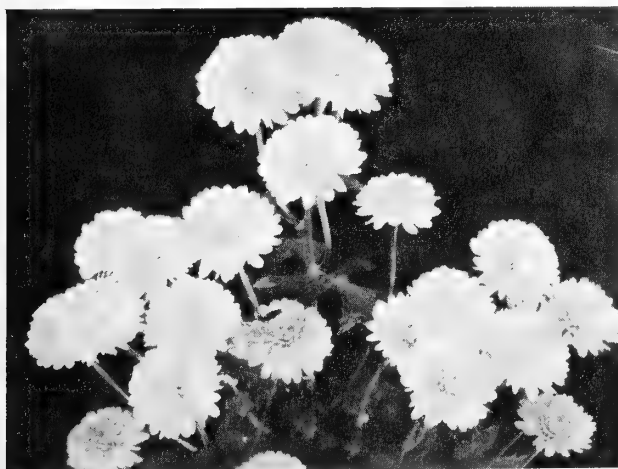
<b>JAMES STEWART</b> Apricot gold pompon. Natural cut flowers for greenhouse and outdoor plantings.	Oct. 15	P
<b>RED ENTERPRISE</b> Rose red sport of Enterprise. Intermediate pompon. Greenhouse and outdoor cut.	Oct. 15	P
<b>PARADISE</b> Intermediate coral red single. Tolerates 56°. Recommended for greenhouse and cloth house.	Oct. 20	P

**9  
WEEK**  
**PINCH  
JULY 25**

<b>RESOLUTE</b> Large reddish bronze pompon. Unusually strong growth habit. Makes a fine pom for early and late cloth house and greenhouse. Tolerates 56°.	Oct. 25	S-2
<b>GAIETY</b> Intermediate Talisman bronze single. Tolerates 56°. Excellent color retention and blending properties has elevated its importance in the trade.	Oct. 25	S-2

<b>FIREBIRD</b> Intermediate red bronze decorative.	Oct. 25	P
<b>BRONZE DOT</b> Small pompon. Good two-tone bronze.	Oct. 25	S-2
<b>SALLY</b> Small pompon. An intensified bronze and increased size selection from Bronze Dot.	Oct. 25	P

**WIZARD**



**DARK RIBBON**






## VARIETIES FOR YEAR-ROUND SPRAYS

### BRONZE AND RED

 Growers Agreement

**9  
WEEK**


**PINCH  
JULY 25**

Variety—Description	Normal Flowering Date	Price
<b>BUCKSKIN</b> A tawny bronze daisy. Very productive.	Oct. 25	S-2
<b>PAXON</b> Intermediate feathered decorative. Bronze version of Illini Snowrift. Intolerant of less than 60°. Some color dilution in high temperature periods.	Oct. 25	S-2
<b>RED REWARD</b> Intermediate daisy. Brick to crimson red sport of Reward. Same habit and vigor as parent.	Oct. 25	P
<b>DOROTHY HYDE</b> Large decorative disbud. Orange-bronze. Can be flowered several months earlier than Fred Yule in the spring. Buds initiate at 56°. Should be cut slightly green. High summer temperatures reduce size.	Oct. 25	P
<b>STUART OGG</b> Intermediate decorative disbud. Luminous apricot pastel.	Oct. 25	P
 <b>WAGONWHEELS</b> Intermediate spindle anemone. Silver-coral reverse color. Tubular petals. Delays in heat.	Oct. 25	P
<b>SYBIL</b> Intermediate golden apricot daisy. Productive. Has petallage and substance. Tolerate 56°. Color holds its chamois smoothness.	Oct. 30	S-1

Variety—Description	Normal Flowering Date	Price
<b>BRONZECHIP</b> Intermediate decorative. Lively orange bronze sport of Bluechip. Valuable cloth house and greenhouse spray variety. Displays color retention properties so unique with Bluechip. Tolerates 56°. Best with cool finish.	Nov. 1	S-4
<b>FIREFLY</b> Orange red pompon. Holds color well.	Nov. 1	P
<b>BUCCANEER</b> Rich orange bronze daisy. Dependable fall variety.	Nov. 1	S-1
<b>RED SENECA</b> Intermediate rust red decorative.	Nov. 1	P
 <b>TANFASTIC New</b> Intermediate pompon. Deep bronze. A very hard, formal pompon of color similar to Beauregard. Strong, productive plant with rigid terminal sprays. It is a shipper's delight with tolerance of low temperature the equal of Beauregards.	Nov. 1	P-1
<b>NAVAHO</b> Intermediate brick red pompon.	Nov. 1	P
<b>RED DAISY</b> Intermediate red single.	Nov. 1	P

**10  
WEEK**

**PINCH  
AUGUST 1**

<b>JETFIRE</b> Intermediate flaming red decorative. A color that holds even in high temperatures. Cloth house and greenhouse. Best on sterilized soils. Susceptible to verticillium wilt. Tolerates 56°.	Nov. 5	S-4
<b>NECTARINE</b> Intermediate apricot orange decorative. Vigor of Copperhead. Finish at 60° or less. Spray benefits from removal of center bud. Tolerates 56°.	Nov. 5	P
 <b>TUNEFUL</b> Intermediate intense orange bronze daisy. Green center with little or no pollen. Has class, substance and production. A proven shipper for Florida. Crops October through mid-November and May through mid-June. Will stall and fade in summer heat. Available June 6, 1960.	Nov. 5	P-1

<b>ORANGE BEAUREGARD</b> Light orange sport from Beauregard. Yellow during summer high temperatures. Tolerates 56°.	Nov. 5	S-2
<b>BEAUREGARD</b> A reddish orange pompon. A very versatile and reliable variety. Tolerant of 56° for initiation. Cloth house and greenhouse. Develops the most desirable spray formation during the high light and long day periods of the year.	Nov. 5	S-5
<b>DARK BEAUREGARD</b> Intermediate pompon. Mahogany bronze sport of Beauregard. Slightly smaller flower. Better color retention. Tolerates 56°.	Nov. 5	S-4

ILLINI HOMESPUN



PAXON




## VARIETIES FOR YEAR-ROUND SPRAYS

### BRONZE AND RED



Growers Agreement

**10  
WEEK**  
PINCH  
AUGUST 1

Variety—Description	Normal Flowering Date	Price
<b>DILLON BEAUREGARD</b> Intermediate pompon. Intense reddish bronze. Possesses a large, full flower with broad petals devoid of notched tips. An all round size and form improvement over Dark Beauregard. Tolerates 56°.	Nov. 5	P-1
<b>RUBICON</b> Intermediate red bronze decorative. Clean growth habit. Tolerates 56°.	Nov. 5	S-3
<b>MAGICIAN</b> Large reddish bronze pompon. Excellent form.	Nov. 5	P
<b>BITTERSWEET</b> Intermediate red bronze single.	Nov. 5	P
<b>BRONZE DELIGHT—New</b> Intermediate daisy. Brick-red bronze. Vigor and habit are identical with its parent Delight. Color is similar to Dillon Beauregard and useful in fall and spring.	Nov. 5	P-1
<b>BRONZE PORTRAIT</b> Reddish-bronze pom. Sport of Portrait. Intolerant to high finish temperatures for color retention.	Nov. 8	P
<b>SAMOVAR</b> Intermediate intense rust red pompon.	Nov. 10	S-1
<b>CHEVRON</b> A small intense bronze pompon. Tolerates 56°.	Nov. 10	P
 <b>DAYBREAK</b> Orange anemone disbud. Attains 4-5" diameters with well-rounded cushions. Color remains smooth under high temperature finishes although intensity may be reduced.	Nov. 10	P
<b>CLIMAX</b> Intermediate intense orange pompon. Vivid color. Excellent vigor and production. Tolerates 56°. High summer temperatures can stall bud development. Fewer compound sprays with 11-week timing.	Nov. 10	S-4
<b>RED CLIMAX</b> Intermediate pompon. Reddish bronze sport from Climax. Requires cool finish for maximum expression and retention of color. Tolerates 56°. More terminal sprays result from 11-week timing.	Nov. 10	P-1

Variety—Description	Normal Flowering Date	Price
<b>GOLDEN CLIMAX</b> Intermediate pompon. Golden bronze sport of Climax. Regular crops are improved by the reduction of one long day week prior shade. Tolerates 56°.	Nov. 10	P-1
<b>COPPERHEAD</b> A large coppery bronze decorative. Very satisfactory as disbudded sprays.	Nov. 10	S-3
 <b>GILTGLOW</b> Intermediate bi-colored single. An expressive reddish-bronze contrasted with a smart green disc. Gold reverse. Medium to short growth habit. Foliage mottle induced under high temperatures.	Nov. 10	S-2
<b>THE TITAN</b> Large intense red anemone. Fast disbuds.	Nov. 10	P
 <b>WIZARD</b> Intermediate pompon. Orange-bronze. Vigorous with a wiry terminal spray. Tolerates summer high temperatures and yet retains color.	Nov. 10	P-1
<b>RED HUMDINGER</b> Burgundy red sport from Humdinger. Tolerates 56°. Needs one additional long day week.	Nov. 11	S-4
<b>#2 RED HUMDINGER—New</b> A significant color intensification on Red Humdinger. This one has more red and less purple which adds greater brilliance and luster to a color of proven appeal in spray crops. Vigor and size remain the same.	Nov. 11	P-1
<b>BRONZE MASTERPIECE</b> Intermediate bronze pompon tolerates 56°.	Nov. 12	S-1
<b>DK. BR. MASTERPIECE</b> Dark sport of Bronze Masterpiece. Brick red with cool finish. Tolerates 56°.	Nov. 12	P
<b>PARAGON</b> A large rust red pompon.	Nov. 12	S-1
<b>AMBERHUE</b> Intermediate orange bronze daisy. Green eye. Performs only in cool 60° finish for spring and fall.	Nov. 14	P

CARDINAL



TAN VEDOVA




## VARIETIES FOR YEAR-ROUND SPRAYS

## BRONZE AND RED



Growers Agreement


**11  
WEEK**
**PINCH  
AUGUST 8**

Variety—Description	Normal Flowering Date	Price
<b>BEAUREGARD SUPREME</b> A sport selected from Beauregard. Same color. Size of flower is nearly double. Response shifts to the 11-week group. Vigor is increased. Superior to Beauregard for early spring and late fall flowering.	Nov. 15	S-2
<b>MRS. DEWEY</b> Deep orange bronze single.	Nov. 15	P
<b>TAN VEDOVA</b> Light bronze sport of Vedova. A new pastel color that requires a cool 60° finish. October through April pots with tall treatment. Available June 6, 1960.	Nov. 15	P-1
<b>THELMA</b> Brilliant orange scarlet pompon. A bell ringer in the fall.	Nov. 15	S-4
<b>RANGER</b> Intermediate true orange pompon. Brilliant new color. Benefited by treatment as a 10-week variety. Terminal spray formation.	Nov. 15	S-3
<b>BRONZE JUBILATION</b> Large pompon. A rosewood-bronze sport of Jubilation. 60° or less is required for color retention.	Nov. 15	S-1
<b>ILLINI WARRIOR</b> Intermediate rust bronze pompon.	Nov. 20	P
 <b>CARDINAL</b> Intense crimson red intermediate pompon. Will light and shade with vigorous uniformity September through April. Fine terminal sprays. First true red that responds and produces well through the northern winter. Recommended mid-December through February for Florida programs where it is a proven shipper. Available June 6, 1960.	Nov. 20	P-1

Variety—Description	Normal Flowering Date	Price
<b>LEGAL TENDER</b> Intermediate bronze decorative.	Nov. 20	S-1
<b>RUSTICON</b> Intermediate rust red pompon.	Nov. 20	S-3
<b>AMBERCON</b> Intermediate pompon. Warm amber bronze sport of Rusticon.	Nov. 20	P-1
<b>VALENTINE</b> Large red decorative. Disbudded sprays of 3-5 flowers. Remove 2-3 center buds. Regular crop requires one additional long day week.	Nov. 20	S-4
<b>ILLINI WAR PAINT</b> Large maroon red decorative. Restrict to low temperature finish.	Nov. 22	S-1
<b>OLNURA</b> Large apricot buff anemone. Valencia size.	Nov. 22	S-1
<b>FESTIVAL</b> Intermediate red single. Short growth habit.	Nov. 23	P
<b>BRONZE MINUET</b> Small to intermediate bronze pompon.	Nov. 23	P
<b>RUBAIYAT</b> Velvety red intermediate formal pompon. Unequalled for October thru Christmas flowering. Slowed by high temperatures during bud development.	Nov. 23	S-5
<b>RED ROLINDA</b> Intermediate brick red anemone.	Nov. 23	S-1

**12  
WEEK**
**PINCH  
AUGUST 15**

<b>ILLINI REDWOOD</b> Intermediate red pompon.	Nov. 25	S-1
<b>BRONZE GOLDSMITH</b> Large amber bronze decorative. Requires 60° for initiation. Best with 3-5 flowers per spray.	Nov. 25	S-3

 <b>FOREVER AMBER</b> Intermediate wide petalled decorative disbud. Velvety smooth amber bronze color. A standout in January and February for the northern environment.	Nov. 25	P
<b>INDIAN HEAD</b> Intense red bronze single.	Nov. 28	P

LEGEND



FROM



## VARIETIES FOR YEAR-ROUND SPRAYS

### BRONZE AND RED

**12  
WEEK**

**PINCH  
AUGUST 15**

Variety—Description	Normal Flowering Date	Price
<b>APRICOT VALENCIA</b> Large apricot bronze single. Requires high temperatures for bud initiation and cool finish.	Nov. 28	S-2
<b>CRIMSON VALENCIA</b> Large maroon red single. Requires high temperatures for bud initiation and cool finish.	Nov. 28	P
<b>GALAXY</b> Intermediate bright orange single. Excellent form, color and response. Always dependable. Fine for cool 60° units.	Dec. 1	S-3
<b>ORANGE GALAXY</b> Sport from Galaxy. Golden orange daisy.	Dec. 1	P

Variety—Description	Normal Flowering Date	Price
<b>RED GALAXY</b> Intermediate scarlet red sport from Galaxy. Dependable and responsive in cool° 60 programs October through April. Good color for Christmas and Valentine's Day. Available June 6, 1960.	Dec. 1	P-1
<b>HOLIDAY</b> Intermediate red single.	Dec. 1	S-1
<b>CRACKERJACK</b> Intermediate daisy. Warm reddish bronze. Crackerjack is the answer to a red Galaxy. More productive.	Dec. 1	S-3
<b>RED EMPRESS</b> Large anemone. A mauve-red sport of Empress. With center bud removed, one of the most rewarding and dependable for winter spray programs in the North. Superior to Red Enchantress.	Dec. 1	P

**13  
WEEK**

**PINCH  
AUGUST 22**

<b>BRONZE ENCHANTRESS</b> Large disspray anemone. Apricot-bronze.	Dec. 5	P
<b>RED ENCHANTRESS</b> Large disspray anemone. Clear maroon red.	Dec. 5	P
<b>DEBONAIR</b> Large red pompon. Fine form.	Dec. 5	S-1
<b>IMP. BRONZE SUPREME</b> Large buff bronze anemone. Disbud. Short.	Dec. 10	P
<b>HARLEQUIN</b> Crimson red intermediate decorative.	Dec. 10	P
<b>CHRISTMAS STAR</b> Intermediate red single. Foliage is intolerant to Parathion.	Dec. 12	S-3

<b>APRICOT MINSTREL</b> Intermediate pompon. Apricot bronze sport of Bronze Minstrel.	Dec. 13	P-1
<b>BRONZE MINSTREL</b> Intermediate coral red pompon.	Dec. 13	S-1
<b>DK. BR. MINSTREL</b> Reddish bronze sport. Smaller, harder flower.	Dec. 13	S-2
<b>FLAME MINSTREL</b> Intermediate pompon. Reddish-bronze Minstrel selection that most closely resembles Red Minstrel in appearance.	Dec. 13	P
<b>RED MINSTREL</b> A sport from Bronze Minstrel with a lively red glow added. Crimson red.	Dec. 13	S-1

**14  
WEEK**

**PINCH  
AUGUST 29**

<b>BRONZE RIVIERA</b> Intermediate orange bronze decorative. Short habit.	Dec. 15	P
<b>CHRISTMAS GREETING</b> Large red decorative.	Dec. 15	S-4
<b>BRONZE ALVODA</b> Large decorative. Bright amber bronze. Sport of Alvoda. Requires 56° or less for best bud and color development.	Dec. 15	P-1

<b>MERRYMAKER</b> Intermediate red single.	Dec. 20	S-2
<b>POINSETTIA</b> Large scarlet red daisy.	Dec. 20	S-2
<b>ILLINI HOMESPUN</b> Intermediate single. Bright tomato red. Medium height. Best on raised beds.	Dec. 20	P-1

HI FI



SPLENDOR



## VARIETIES FOR YEAR-ROUND SPRAYS

## PINK



Growers Agreement

8  
WEEK

PINCH  
JULY 18

Variety—Description	Normal Flowering Date	Price
<b>ENTERPRISE</b> Intermediate deep pink pompon. Outdoor cut flower.	Oct. 15	P
<b>ELIZABETH HOOD</b> Intermediate light orchid pink pompon. Garden backgrounds.	Oct. 15	P
<b>JEWELL</b> Small formal pompon. Lavender pink, short and productive. Natural garden cut.	Oct. 15	P

Variety—Description	Normal Flowering Date	Price
<b>ACCOLADE</b> Intermediate decorative. Close to true carnation pink. Vigorous stems and well developed sprays. An ideal outdoor, natural cutting variety, equally valuable in spring and fall greenhouse programs. Pinched crops are preferred.	Oct. 15	P-1
<b>MIRTH</b> Intermediate pink single. Smart form and good color for high temperature greenhouse and cloth house.	Oct. 20	P
<b>CAROLYN YOSICK</b> Intermediate lavender pink pompon.	Oct. 20	S-1

9  
WEEK

PINCH  
JULY 25

<b>PINKETTE</b> Small dark pompon. Tolerates 56°.	Oct. 25	S-1
<b>REWARD</b> A very productive deep pink single that holds color well. Tolerates 56°.	Oct. 25	S-2
<b>PINK DOT</b> Small pink pompon.	Oct. 25	S-2
<b>ROSE GAIETY</b> Intermediate coral rose single. Sport of Gaiety. A beautiful pastel color for the cool finishing periods of spring and fall.	Oct. 25	P-1
<b>THOMAS JOHNSON</b> Large decorative. Deep orchid pink. Individual flowers surpass the size of Portrait. Color and petalage improved by bright days and cool nights.	Oct. 28	P
<b>BLUECHIP</b> Intermediate luminous pink decorative. Continues to rate as one of the best all around pink poms for both greenhouse and cloth house spray programs.	Nov. 1	S-7

<b>PINKCHIP</b> Intermediate decorative. A flattering light pink selection of Bluechip. Greatest color difference is noted when finished at 60° or less. Tolerates 56°.	Nov. 1	S-2
<b>PEACH CHIP</b> Intermediate decorative. Bright peach pink. With cool finishing temperatures of spring and fall, the color is unmatched for brilliance and harmony.	Nov. 1	P-1
<b>DARKCHIP</b> Intermediate decorative, dark lavender pink sport of Bluechip. In the spring months, growth is normally 3-4" taller than Bluechip and 3-4 days later to flower. One of the best pinks for summer color retention.	Nov. 1	S-3
<b>LILLIAN DOTY</b> Large light pink pompon.	Nov. 1	P
<b>HANDSOME</b> Intermediate decorative pom. Lavender pink. Striking resemblance to Bluechip. Shorter habit.	Nov. 1	S-2
<b>TEMPO</b> Intermediate deep pink decorative. A 9-week Masterpiece.	Nov. 3	S-1

10  
WEEK  
PINCH  
AUGUST 1

<b>PARISIENNE</b> Intermediate shell pink single. The color is as close to true pink as exists in the chrysanthemum.	Nov. 5	S-2
<b>DELIGHT</b> Intermediate pink duplex daisy. Productive, durable, striking color and fresh appearance. Improved with center bud removal.	Nov. 5	S-3

<b>SOUTHDOWN PINK</b> Intermediate duplex disbud of Valencia size and form. Delicately shaded pink with green disc center. Tolerates 56°. Low temperature finish.	Nov. 5	S-1
<b>PORTRAIT</b> Large lavender pink pompon.	Nov. 8	S-6

ACCOLADE



MERMAID





## VARIETIES FOR YEAR-ROUND SPRAYS

### PINK



Growers Agreement

**10  
WEEK**

**PINCH  
AUGUST 1**

Variety—Description	Normal Flowering Date	Price
<b>PINK PORTRAIT</b> Light pink pompon. Portrait sport.	Nov. 8	S-2
<b>PROFILE</b> Large pompon. A lively deep pink. Portrait sport. Form is more decorative. Breaking habits are better than Portrait.	Nov. 8	S-2
<b>CRITERION</b> Large pink decorative. A fine cut spray with one extra long day week and center bud removed.	Nov. 8	S-6
<b>BONNIE</b> Intermediate pink pompon. Formal and hard. Tolerates 56°. Delays in high temperatures.	Nov. 10	S-2
<b>PENNANT</b> Intermediate deep pink pompon. Tolerates 56°. Colorfast and resists heat delay.	Nov. 10	S-4
<b>ILLINI ACCENT</b> Intermediate decorative. Deep mauve purple. A low temperature tolerant variety for spring and fall Regular programs.	Nov. 10	P
<b>DK. PK. PANDORA</b> Intermediate dark pink decorative. Requires 60° initiation.	Nov. 10	P

Variety—Description	Normal Flowering Date	Price
<b>PANDORA</b> Large luminous pink decorative. Requires 60° initiation.	Nov. 10	S-2
<b>SCINTILLATION</b> Intermediate deep pink pompon. Vigorous and heavy. Requires 60° bud initiation.	Nov. 10	S-1
<b>LINDA LOU</b> Intermediate light lavender pink anemone. Tolerates 54°.	Nov. 10	P
<b>HUMDINGER</b> Large violet purple, formal pompon. Tolerates 56°.	Nov. 10	S-5
<b>MASTERPIECE</b> Intermediate lavender pink pompon. Disspray. Tolerates 56°. Demands 60° or lower to hold color.	Nov. 12	S-2
<b>ROSE MASTERPIECE</b> Intermediate light lavender pink pompon. Disspray. Finish cool.	Nov. 12	S-1
<b>CHEERFUL</b> Intermediate pom. Lavender pink with tone on tone contrast. Terminal sprays. Easy to handle. Ideal for air-cooled houses.	Nov. 12	S-3

**11  
WEEK**

**PINCH  
AUGUST 8**



<b>TAFFETA</b> A two-tone pompon. Best with cool finish.	Nov. 15	S-3
<b>DARK TAFFETA</b> Dark pink sport from Taffeta.	Nov. 15	P
<b>HEATHER—New</b> Medium sized luminous pink anemone. Breaks and spreads well for mid-September through May programs. Available June 6, 1960.	Nov. 15	P-1
<b>DARK NORMA</b> Large dark lavender anemone.	Nov. 15	P
<b>JUBILATION</b> Large pompon. Masterpiece pink. Growth is clean and strong with sharp responses. Tolerant of 56°. Production improves Taffeta, Almega, Delmar series.	Nov. 15	S-3

<b>ROSE JUBILATION—New</b> Bright rose pink sport from Jubilation. Habit and vigor identical with parent. Adaptable October through mid-December and March through mid-May. Available June 6, 1960.	Nov. 15	P-1
<b>ILLINI SPRINGTIME</b> Intermediate pink single. Pleasing color.	Nov. 15	P
<b>PIONEER</b> Large pompon-shell pink. Essentially for bantam and fast disbuds.	Nov. 15	P-1
<b>RHYTHM</b> Smooth light pink intermediate daisy. Vigorous habit makes it an excellent companion for the Galaxies.	Nov. 15	P

PRINCESS ANNE



POITEVINE SUPREME





## VARIETIES FOR YEAR-ROUND SPRAYS

### PINK



Growers Agreement

**11  
WEEK**

**PINCH  
AUGUST 8**

Variety—Description	Normal Flowering Date	Price	Variety—Description	Normal Flowering Date	Price
<b>VEDOVA</b> Extra large Valencia sized anemone. Pastel shade of lavender pink with small green-tipped cushions.	Nov. 15	S-2	<b>SPLENDOR—New</b> Large luminous shell pink decorative pompon. Vigorous and strong and best grown on raised beds, finished at cool 60° or less. Adaptable mid-October through mid-April. Intolerant of marginally low temperatures for growth and initiation in late winter. Available June 6, 1960.	Nov. 25	P-1
<b>GRAND SLAM</b> Brilliant silvery pink daisy.	Nov. 20	P	<b>VENOYA</b> Extra large lavender pink anemone. Similar to Vedova. Larger green-eyed cushion.	Nov. 22	S-3
<b>ALMEGA</b> Large silvery pink pompon. Formal form, color and substance excellent.	Nov. 20	S-3	<b>MINUET</b> Small true pink pompon.	Nov. 23	S-1
<b>DARK ALMEGA</b> Dark lavender pink sport from Almega.	Nov. 20	P	<b>ILLINI FORMAL</b> Intermediate lavender pink pompon. Semi-short.	Nov. 23	S-1
<b>PINK L.I. BEAUTY</b> Large light pink yellow cushion anemone. Tolerates 56°.	Nov. 20	P	<b>CELEBRITY</b> Intermediate decorative. Shell pink. Larger flower than Almega. Needs a cool 60° finish.	Nov. 23	S-2
<b>STACCATO</b> Intermediate formal pom. Lavender pink. Like an 11-week Minstrel in form. Reliably responsive all through the winter. Tolerates 56° minimum.	Nov. 20	P	<b>BLUE SKIES</b> Large pompon. Portrait pink. Develops a larger flower with more vigor than Delmar.	Nov. 23	P-1

**12  
WEEK**

**PINCH  
AUGUST 15**

<b>BEAUTIFUL LADY</b> Large pink anemone. Disbud.	Nov. 25	S-1	<b>SALMON VALENCIA</b> Large salmon pink single. Requires high temperatures for bud initiation and cool finish.	Nov. 28	P
<b>DELMAR</b> Intermediate pompon. Light lavender pink. Distinctive dot color contrast with excellent spray formation.	Nov. 25	S-4	<b>VALENCIA</b> Large light lavender pink single. Requires high temperatures for bud initiation and cool finish.	Nov. 28	S-2
<b>HI FI—New</b> Intermediate portrait pink pompon. Larger and more productive than Delmar. Adaptable October through April. Available June 6, 1960.	Nov. 25	P-1	<b>DARK VALENCIA</b> Large lavender pink single. Requires high temperatures for bud initiation and cool finish.	Nov. 28	S-2
<b>DESIRE</b> Intermediate anemone. Delicately colored light pink. High crowned cushions.	Nov. 25	P	<b>HERITAGE</b> Intermediate formal dark pink pompon. Tall and vigorous.	Dec. 1	P
<b>LEGEND</b> Intermediate formal pompon. True lavender pink. Fills a gap in winter programs. Equally as beautiful as Minstrel. Response is uniform all winter through April. It is hard, ships well.	Nov. 25	P-1	<b>EMPRESS</b> Large Anemone. Deep magenta pink. Use center bud removal.	Dec. 1	P

ILLINI ACCENT



VALENTINE



## VARIETIES FOR YEAR-ROUND SPRAYS

## PINK



Growers Agreement

**12  
WEEK**
**PINCH  
AUGUST 15**


Variety—Description

Normal  
Flowering Date

Price

PROM

Dec. 1 P-1

Intermediate pompon. Smooth, intensified Delmar pink. Fine vigor and strong stem for winter cut flower programs. Uniform response in cool 60° units. Spray development is improved with the center bud removed.

**13  
WEEK**
**PINCH  
AUGUST 22**

EMINENCE

Dec. 5 P

Intermediate daisy. Bright lavender pink. Very vigorous. January crops require 62-65° temperatures.

ENCHANTRESS

Dec. 5 S-1

Large lavender pink disspray anemone.

DARK ENCHANTRESS

Dec. 5 P

Large deep pink disspray anemone.

PINK SNOWDROP

Dec. 8 S-1

Smooth light pink sport from Snowdrop.

PINK SUPREME

Dec. 10 P

Large pink anemone. Habit resembles Imp. White Supreme. Tall disbud.

IMP. DARK SUPREME

Dec. 10 P

Large pink anemone. Short. Late disbud.

DEBUTANTE

Dec. 10 S-2

Intermediate pink single. Tolerates 56°. Consistently dependable in winter cool 60°.

MINSTREL

Dec. 13 S-3

Intermediate lavender pink pompon.

DK. PK. MINSTREL

Dec. 13 S-2

A clear, deep mulberry shade of Minstrel.

IMP. PINK MINSTREL

Dec. 13 S-2

Intermediate formal pom. Color of Pink Dot.

GAY MINSTREL

Dec. 13 P-1

Intermediate pompon. Sport of Minstrel but a lighter tint of pink. Size and form resembles Dark Bronze Minstrel. Less vegetative than Minstrel.

**14  
WEEK**
**PINCH  
AUGUST 29**

RIVIERA

Dec. 15 S-1

Intermediate luminous pink decorative. Requires 60° initiation. Finish cool. Short habit.

ALVODA

Dec. 15 S-4

Large smooth Portrait pink decorative. One of the best for late spray programs. Free growth. Tolerant of 56°. Cool 60° units needed for midwinter color retention.

DARK ALVODA

Dec. 15 P-1

Large decorative. Dark Minstrel pink. Sport from Alvoda. 56° is maximum for bud development and full color expression.

ROSALIND

Dec. 20 P

Intermediate light lavender single. Tolerates 56°.

DEFIANCE

Dec. 20 P

Intermediate pink decorative.

MEDALLION

Dec. 20 S-1

Intermediate lavender rose pompon.

LYNDA McLANE

Dec. 25 S-1

A late pink pompon with a habit that does not produce blind growth and a color that is highly acceptable.



SUNDOWN



BLUESKIES

## SPRAY VARIETIES SUITABLE FOR DISBUDS

WHITE	SILVER BOW WHITE DOTY CAMILLE BAUMANN ICEBERG ENSIGN ICE CREAM VISCOUNT CHALK CLIFF JOHN BAUMANN LONG ISLAND BEAUTY BELRAY WHITE VALENCIA WHITE LADY IMP. WHITE SUPREME	BRONZE & RED	DOROTHY HYDE STUART OGG NECTARINE DAYBREAK COPPERHEAD THE TITAN TAN VEDOVA VALENTINE OLNURA RED ROLINDA FOREVER AMBER APRICOT VALENCIA CRIMSON VALENCIA RED EMPRESS BRONZE ENCHANTRESS RED ENCHANTRESS IMP. BRONZE SUPREME
YELLOW	GOLDEN HERALD YELLOW ICEBERG #2 YELLOW ICEBERG GOLDBERG LUXURY SUSANNE MILLER YELLOW L. I. BEAUTY YELLOW VALENCIA CORONATION YELLOW ENCHANTRESS IMP. YELLOW SUPREME	PINK	THOMAS JOHNSON LILLIAN DOTY SOUTHDOWN PINK DARK NORMA PIONEER VEDOVA VENOYA PINK L. I. BEAUTY BEAUTIFUL LADY VALENCIA DARK VALENCIA SALMON VALENCIA EMPRESS ENCHANTRESS DARK ENCHANTRESS PINK SUPREME IMP. DARK SUPREME

## PRICE TABLE

All prices are per 100 cuttings except the first column on the left.  
 Fifty cuttings are priced per 50.

PRICE CLASSIFICATION	50 ONLY	PRICE PER 100			
		100-250	300-450	500-950	1000 & UP
S-9	3.25	6.25	6.00	5.75	5.50
S-8	3.38	6.50	6.25	6.00	5.75
S-7	3.50	6.75	6.50	6.25	6.00
S-6	3.63	7.00	6.75	6.50	6.25
S-5	3.75	7.25	7.00	6.75	6.50
S-4	3.88	7.50	7.25	7.00	6.75
S-3	4.00	7.75	7.50	7.25	7.00
S-2	4.13	8.00	7.75	7.50	7.25
S-1	4.25	8.25	8.00	7.75	7.50
P	4.38	8.50	8.25	8.00	7.75
P-1	4.50	8.75	8.50	8.25	8.00

PRICES EFFECTIVE JANUARY 4, 1960 ... SUBJECT TO CHANGE WITHOUT NOTICE

# NEW GARDEN VARIETIES FOR 1960

\* Useful as a Garden Pot Plant

## WHITE

### NANOOK

Sept. 14

Small decorative cushion. A dwarf mound smothered by cream colored flowers. A delightful border plant

### CANDLEGLOW

Sept. 28

Tall clear crisp creamy white decorative. Excellent for table bouquets.

### ALBAFLORA

Sept. 20

Large silvery white decorative with slightly cream center. Prolific flowering habit. A very attractive plant.

### \*CORSAGE CUSHION

Oct. 1

Compact and clean growing carnation type cushion. Buds show tinges of pink, but open a beautiful white. Compact and prolific flowering habit. Outstanding as a spring pot plant for 3" or larger pot sizes. You will welcome this variety.

### RAGGEDY ANN

Sept. 28

Beautiful large white cushion, novelty. Carnation type petals. Vigorous growing variety with loads of flowers. For those who want something different.

### MOUNT HOOD

Sept. 28

Pure white large incurved decorative. Prolific flowering habit. Sturdy stems that support mounds of flowers.

### HENRY ETTS

Oct. 1

Tall and vigorous growing pure white spoon. Stiff stems and strong pedicels. A decided improvement over the present white Spoon. A really worthwhile addition.

## YELLOW

### JOHN MILBRATH

Sept. 10

New 3" glistening bright yellow decorative. Slightly incurved. Nice for table use or border plantings.

### BETH RUSSEL

Oct. 1

Large cream decorative. Strong sturdy stems support a wealth of blooms. Compact growing habit. A beautiful specimen plant.

### EXETER

Sept. 25

Medium golden formal decorative. Compact growth habit with well placed flowers. Contrasting deep green foliage with a brilliant display of flowers when fully open.

## RED AND BRONZE

### DANDY (H)

Sept. 16

Early blooming incurved reddish bronze. Upright cushion plant. Blooms for two months.

### ABUNDANCE

Sept. 20

Medium golden bronze decorative. Early and compact, displaying an abundance of blooms. Will attract much attention.

# NEW GARDEN VARIETIES FOR 1960

\* Useful as a Garden Pot Plant

## RED AND BRONZE (Continued)

### \*LAWRENCE BLANEY

Sept. 25

Beautiful glittering orange red decorative. Compact and smartly styled. Mounds of blooms. Excels as a spring pot for 3" or larger. A real value.

### NOBILITY

Oct. 4

Velvety textured deep red decorative with rich green foliage. Long stems for cutting.

### MIKADO

Sept. 25

Large cactus type decorative. Beautiful red 4" flowers that respond to disbudding. Heavy 2½ ft. producer in late September. A real eye catcher.

### NINA REBMAN

Oct. 10

Bright non-fading rich dark red. Flowers have excellent substance and are frost resistant. Heavy producers of exquisite sprays for table bouquets.

## PINK

### PRINCESS (H)

Sept. 15

Peach to rose pink decorative with gold pink petals borne on 15" to 18" plants which begin to flower in early September. A delightful mound of continual fresh looking blossoms.

### JOSEPHINE FERRIS

Oct. 5

Cream pink pompon with contrasting deep pink centers. Pale lavender buds swell into enhancing fine textured flowers. Has a good growth habit with outstanding production.

### MINNEHAHA

Sept. 20

Lovely 2" blossoms of rosy sandalwood pink on a large cushion type plant.

### TREVANIA

Oct. 10

Large coral peach 3" decorative. Lush green foliage on stems perfect for table use.

### \*PINK SPOON CUSHION

Sept. 26

Vigorous growing lavender pink spoon. Much more prolific flowering than the other Spoons. An excellent late Spring pot plant. Best for Memorial Day.

### BETTY ETTS

Oct. 10

Bright orchid pink spoon of outstanding texture. Long tubular petals with spoon tips. Heavy stemmed and wind resistant. A delightful garden plant for table bouquets or ornamental use.

### \*PURPLE DUSK

Sept. 26

Upright cushion of light purple. Compact and clean growing. Another valuable spring pot addition for 3" pots or larger.

### EVELYN GARREN

Oct. 12

Striking large rose and gold incurved. Compact growth habit making a lovely garden specimen. A variety that is really wind and frost resistant. It is enhanced by partial disbudding but is not necessary.

### \*ANN LADYGO

Oct. 5

Medium pink anemone. Cushion type growth. One of the loveliest garden specimens to date. When in full flower the foliage is completely covered by beautiful pink anemones. The most exciting new spring pot available.

### PINCHING SCHEDULE

#### FOR

#### GARDEN CHRYSANTHEMUM

Last pinch for Garden Mums should be as follows:

CUT FLOWER VARIETIES	JULY 11
BEDDING AND BORDER VARIETIES	JULY 25



## GARDEN VARIETIES

SYMBOLS—(L) Large—(D) Decorative—(P) Pompon—(C) Cushion—(S) Single—(B) Button  
(C-F) Carnation Flowered—(Sp) Spoon.

\* Recommended for spring pot plants pinched and short day treatment same day.

D Varieties recommended as better when disbudded.

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>WHITE</b>					
OSAGE	(CD)	WHITE	SHORT	SEPT. 5	S-2
CANDLELIGHT	(D)	WHITE	MED.	SEPT. 5	S-3
D. D. AHRENS	(D)	WHITE	TALL	SEPT. 10	S-3
PAPER WHITE	(D)	WHITE	MED.	SEPT. 10	S-5
* CRYSTAL MAID	(DP)	CREAM	SHORT	SEPT. 12	S-3
NANOOK	(CD)	CREAM	SHORT	SEPT. 14	P-1
* CHRIS. COLUMBUS	(LDP)	CREAM	TALL	SEPT. 15	S-4
WH. CUSHION	(C)	WHITE	SHORT	SEPT. 15	S-6
* GLORIA	(DP)	WHITE	MED.	SEPT. 15	S-3
POWDERPUFF	(C)	WHITE	SHORT	SEPT. 15	S-5
POLAR ICE	(D)	WHITE	MED.	SEPT. 15	S-4
* WH. BOUNTY	(BP)	CREAM	TALL	SEPT. 15	S-5
D WH. TOWER	(LP)	CREAM	TALL	SEPT. 15	S-4
* PRINCESS KAY	(D)	WHITE	MED.	SEPT. 20	P
ALBAFLORA	(LD)	WHITE	MED.	SEPT. 20	P-1
BENORA	(C)	WHITE	SHORT	SEPT. 20	P
* GRANNY LEHMAN	(D)	WHITE	MED.	SEPT. 20	P
WHITE SAIL	(D)	WHITE	MED.	SEPT. 23	S-1
WH. WONDER	(LP)	IVORY	MED.	SEPT. 25	S-4
JESSAMINE WILLIAMS	(SP)	WHITE	MED.	SEPT. 25	S-1
* SHALIMAR (H)	(LD)	WHITE	MED.	SEPT. 25	S-4
QUICKSILVER (H)	(LD)	CREAM	MED.	SEPT. 25	P-1
WH. RICE	(LP)	WHITE	SHORT	SEPT. 25	S-4
* OSTOSA	(CP)	WHITE	SHORT	SEPT. 25	S-1
WH. CLOUD	(D)	WHITE	TALL	SEPT. 25	S-3
RAGGEDY ANN	(LC)	WHITE	MED.	SEPT. 26	P-1
* JUDY	(BP)	WHITE	SHORT	SEPT. 27	P
MOUNT HOOD	(LD)	WHITE	MED.	SEPT. 28	P-1
CANDLEGLOW	(D)	WHITE	TALL	SEPT. 28	P-1
NORTH STAR	(S)	WHITE	MED.	SEPT. 28	S-4
* PEPITA	(SBP)	WHITE	MED.	SEPT. 28	S-4
* LARRY	(P)	WHITE	SHORT	OCT. 1	S-1
* CORSAGE CUSHION	(C)	WHITE	SHORT	OCT. 1	P-1
SPINDRIFT	(D)	WHITE	MED.	OCT. 1	S-3
HENRY ETTS	(SP)	WHITE	TALL	OCT. 1	P-1
* GARDENIA	(LD)	WHITE	MED.	OCT. 1	S-2
BETH RUSSEL	(LD)	CREAM	MED.	OCT. 1	P-1
GRACE BRADSHAW	(LD)	WHITE	TALL	OCT. 1	P-1
* KANSAS	(D)	WHITE	MED.	OCT. 5	P-1
* MITSIE	(P)	WHITE	MED.	OCT. 5	P-1
LIMELIGHT	(D)	WHITE	MED.	OCT. 6	S-3
* MEDUSA	(D)	WHITE	MED.	OCT. 5	P-1
HADLEY	(D)	CREAM	TALL	OCT. 5	P-1
* LYRIC	(S)	WHITE	SHORT	OCT. 5	S-3
AVALANCHE	(LD)	WHITE	TALL	OCT. 5	P
HORIZON	(D)	WHITE	MED.	OCT. 5	S-1
* CLASSIC	(P)	WHITE	TALL	OCT. 10	P
* MINNESOTA	(LP)	WHITE	MED.	OCT. 10	S-1
* MAESTRO	(P)	CREAM	SHORT	OCT. 10	P
* ALBION	(LD)	WHITE	MED.	OCT. 10	S-2
WH. MASQUERADE	(B)	WHITE	MED.	OCT. 10	P
WH. SPOON	(SP)	WHITE	MED.	OCT. 10	S-4
* SILVERPLATE	(D)	WHITE	MED.	OCT. 12	P
* ELMIRA	(LD)	CREAM	MED.	OCT. 12	P-1
* MICHIGAN STATE	(LD)	WHITE	MED.	OCT. 14	S-1
SPARTAN	(LD)	WHITE	TALL	OCT. 15	P-1
PILGRIM	(P)	WHITE	MED.	OCT. 15	S-1
SILVER BALL	(LP)	WHITE	TALL	OCT. 15	S-6
IRENE	(B)	WHITE	MED.	OCT. 15	P
BLIZZARD	(P)	WHITE	MED.	OCT. 15	S-1

## GARDEN VARIETIES

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>YELLOW</b>					
REVERENCE	(LD)	CHAMOIS	SHORT	SEPT. 1	S-3
* EARLY GOLD	(P)	GOLDEN	SHORT	SEPT. 5	S-1
GOLDEN HOURS	(P)	CHROME YEL.	MED.	SEPT. 8	S-3
JOHN MILBRATH	(LD)	BRT. YELLOW	MED.	SEPT. 10	P-1
GOLD BUTTON	(BP)	GOLDEN	MED.	SEPT. 10	S-3
DELIGHT (H)	(P)	GOLDEN	MED.	SEPT. 12	S-3
GENISTA	(D)	CANARY YEL.	MED.	SEPT. 12	S-3
PATHFINDER	(D)	DEEP LEMON	MED.	SEPT. 15	S-3
* POMPONETTE	(P)	ORANGE	SHORT	SEPT. 15	S-5
YEL. CUSHION	(D)	LIGHT YEL.	SHORT	SEPT. 15	S-6
* YEL. CHRIS COLUMBUS	(LD)	BRT. LEMON	MED.	SEPT. 15	S-4
* EARLY YELLOW	(B)	DEEP LEMON	SHORT	SEPT. 15	S-5
GOLDEN CARPET	(C)	GOLDEN	SHORT	SEPT. 15	S-3
GLENDAL	(P)	YELLOW	MED.	SEPT. 15	P-1
*D MING	(P)	GOLDEN	MED.	SEPT. 18	S-3
GOLDEN FANTASY	(CF)	GOLDEN	MED.	SEPT. 20	P-1
* SEPT. SUNSHINE	(S)	BRT. LEMON	MED.	SEPT. 20	S-5
* AGLOW	(P)	ORANGE-YEL.	MED.	SEPT. 20	P
SUNDANCE	(D)	LEMON	MED.	SEPT. 20	P-1
REAL GOLD	(LD)	DEEP GOLDEN	MED.	SEPT. 20	S-3
CANARY WONDER	(LP)	CANARY YEL.	MED.	SEPT. 25	S-4
GOLDEN WONDER	(LP)	GOLDEN	MED.	SEPT. 25	S-4
CHARLES NYE	(LP)	DEEP LEMON	TALL	SEPT. 25	P
GOLDEN SUNSET	(LD)	COPPER	MED.	SEPT. 25	S-4
HILITE	(D)	YELLOW	TALL	SEPT. 25	P-1
* HONEYCOMB	(P)	HONEY YEL.	MED.	SEPT. 25	S-3
EXETER	(D)	GOLDEN	MED.	SEPT. 25	P-1
* MOONLIGHT	(LD)	BRT. YELLOW	MED.	SEPT. 25	P
LEE POWELL	(LD)	CHINESE YEL.	TALL	SEPT. 25	P
GOLDEN AGE	(P)	GOLDEN YEL.	TALL	SEPT. 25	P-1
TANGERINE	(LD)	DEEP ORANGE	MED.	SEPT. 25	S-4
BUTTERSCOTCH (H)	(D)	GOLDEN YEL.	TALL	SEPT. 26	P
ASTORIA	(LD)	DEEP LEMON	MED.	SEPT. 28	S-1
* MARIE HARTMAN	(D)	CANARY YEL.	MED.	SEPT. 28	P
YEL. SUPREME (H)	(C)	BRT. LEMON	SHORT	SEPT. 28	S-6
RUBY BREITHAUP	(LD)	PRIMROSE YEL.	MED.	OCT. 1	S-1
FREYA	(LD)	GOLDEN YEL.	MED.	OCT. 1	S-3
* KING'S RANSOM	(D)	GOLDEN YEL.	MED.	OCT. 1	S-2
TRANQUILITY	(D)	LEMON YEL.	MED.	OCT. 1	S-3
* CHIQUITA	(B)	DEEP LEMON	MED.	OCT. 1	P
ETHEL WATERS	(L-INC.)	LT. LEMON	MED.	OCT. 5	S-2
NEWTON	(L-CACTUS)	GOLDEN YEL.	MED.	OCT. 5	S-2
* SUDAN	(LD)	YELLOW	MED.	OCT. 5	P-1
* ILLINOIS	(INC.)	BRT. GOLDEN	MED.	OCT. 5	S-1
YEL. AVALANCHE	(LD)	LT. LEMON	TALL	OCT. 5	P
ORION	(LD)	SOFT YELLOW	SHORT	OCT. 5	P-1
ROULETTE	(LD)	BRT. YELLOW	SHORT	OCT. 5	S-1
* SPODE	(L-INC.)	BRT. LEMON	SHORT	OCT. 8	S-3
* YEL. SPOON	(SP)	LT. YELLOW	MED.	OCT. 10	S-1
TREASURE	(P)	GOLDEN YEL.	TALL	OCT. 10	P
GOLDEN SPOON	(SP)	GOLDEN YEL.	MED.	OCT. 10	S-4
BRIGHT FORECAST	(P)	BRT. LEMON	TALL	OCT. 10	S-1
YEL. CALUMET (H)	(P)	LEMON YEL.	MED.	OCT. 10	P
ARLORA	(LD)	BRT. LEMON	MED.	OCT. 10	S-3
MICHIGAN	(LD)	CLEAR YEL.	MED.	OCT. 12	S-1
* SUNBURST	(L-CACTUS)	GOLDEN YEL.	MED.	OCT. 12	P
* GOLD LODE	(L-INC.)	BRT. YELLOW	MED.	OCT. 15	S-1
JUDITH ANDERSON	(B)	BRT. LEMON	MED.	OCT. 15	S-5
YEL. IRENE	(B)	LT. LEMON	MED.	OCT. 15	P
* OHIO STATE (H)	(CACTUS)	GOLDEN YEL.	MED.	OCT. 15	P
SARASOTA	(P)	BRT. LEMON	MED.	OCT. 15	S-3
* IOWA	(INC.)	BRT. LEMON	MED.	OCT. 15	S-1

## BRONZE AND RED

VULCAN (H)	(D)	DARK RED	SHORT	AUG. 24	P
TECUMSEH	(C)	BRICK RED	SHORT	SEPT. 2	P-1
GLOW WORM	(C)	OR. SCARLET	SHORT	SEPT. 8	S-3
EARLY HARVEST	(C)	MAH. ORANGE	SHORT	SEPT. 8	S-1

## GARDEN VARIETIES

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>BRONZE AND RED</b>					
HARBINGER	(LD)	GOLDEN BR.	SHORT	SEPT. 8	S-2
* W. P. SNYDER	(P)	APRICOT OR.	MED.	SEPT. 10	S-1
AUTUMN SONG	(D)	WINE ROSE	MED.	SEPT. 10	S-3
GEO. LUXTON	(LD)	LT. BRONZE	MED.	SEPT. 12	S-3
TRIBUTE	(LD)	DAPHNE RED	MED.	SEPT. 14	S-1
BR. POMPONETTE	(P)	GOLDEN BR.	SHORT	SEPT. 15	S-2
EARLY CRIMSON	(D)	BRT. CRIMSON	MED.	SEPT. 15	S-5
APACHE	(LD)	RED & GOLD	MED.	SEPT. 15	S-3
EARLY BRONZE	(B)	ORANGE BR.	SHORT	SEPT. 15	S-5
RED GOLD	(B)	RED & GOLD	MED.	SEPT. 15	S-4
DK. RED GOLD	(B)	DARK RED	MED.	SEPT. 15	S-4
NEW MARJ. MILLS	(LP)	RUBY	SHORT	SEPT. 15	P
FLAMBOYANT	(D)	ORANGE BR.	MED.	SEPT. 15	S-3
EARLY KATHLEEN	(D)	COPPERY BR.	MED.	SEPT. 15	S-3
COMPANION	(D)	GOLDEN BR.	MED.	SEPT. 15	S-2
AUTUMN BEAUTY	(D)	CHESTNUT RED	MED.	SEPT. 15	S-3
DANDY (H)	(D)	REDDISH BR.	MED.	SEPT. 16	S-5
SEPT. BRONZE	(B)	GOLDEN BR.	MED.	SEPT. 20	S-5
* TORONTO	(C)	BRONZE	SHORT	SEPT. 20	P
* BRONZE QUEEN (H)	(C)	COPPER BR.	SHORT	SEPT. 20	S-4
ABUNDANCE	(D)	GOLDEN BR.	MED.	SEPT. 20	P-1
RED GLOW	(P)	DARK RED	MED.	SEPT. 20	S-4
* ORSONA	(P)	REDDISH BR.	MED.	SEPT. 20	S-3
SCARLET CRIMSON	(D)	BRIGHT RED	MED.	SEPT. 20	S-4
MME. CADILLAC	(LP)	RASPBERRY	SHORT	SEPT. 20	S-3
BRONZE GIANT	(LD)	BRONZE	TALL	SEPT. 22	P
ROUGE CUSHION	(C)	BRIGHT RED	SHORT	SEPT. 25	S-2
BR. WONDER	(P)	BRONZE	MED.	SEPT. 25	S-3
PLAINSMAN	(D)	GOLDEN BR.	MED.	SEPT. 25	S-2
CROWN JEWELL	(D)	BRIGHT RED	SHORT	SEPT. 25	S-3
CHAMP. CUSHION	(C)	DEEP BRONZE	SHORT	SEPT. 25	S-6
COMD. CUSHION	(C)	RED	SHORT	SEPT. 25	S-6
MAHOGANY CUSHION	(C)	RED	SHORT	SEPT. 25	S-6
ELITE CUSHION	(C)	SALMON BR.	SHORT	SEPT. 25	S-6
FOOTBALL BRONZE	(D)	BRONZE	TALL	SEPT. 25	S-3
* LAWRENCE BLANEY	(D)	ORANGE RED	MED.	SEPT. 25	P-1
MOJAVE GOLD	(LD)	GOLDEN BR.	MED.	SEPT. 26	S-1
DARK KNIGHT	(D)	DEEP RED	MED.	SEPT. 28	P
MIKADO	(LD CACTUS)	RED	TALL	SEPT. 28	P-1
* REMEMBRANCE	(D)	DARK CARMINE	MED.	SEPT. 28	S-1
LIPSTICK	(C)	RUBY ORANGE	SHORT	SEPT. 28	S-2
KATHLEEN LEHMAN	(LD)	ORANGE BR.	MED.	SEPT. 28	S-3
RUTH SCOTT	(D)	GOLDEN BR.	TALL	SEPT. 28	P
ADMIRATION	(D)	SALMON	MED.	SEPT. 28	S-5
* MOROCCO	(C)	REDDISH BR.	SHORT	OCT. 1	S-1
* CAPRICE	(LD)	APRICOT BR.	MED.	OCT. 1	S-3
* IRON MOUNTAIN	(P)	DEEP RED	MED.	OCT. 1	S-4
JUBILEE (H)	(P)	CRIMSON RED	MED.	OCT. 1	S-3
FIESTA	(P)	ORANGE RUST	TALL	OCT. 1	S-4
RED CLOUD	(C)	SCARLET RED	MED.	OCT. 1	S-3
RED RIDING HOOD	(D)	BRIGHT RED	MED.	OCT. 1	S-3
SAM WILLISTON	(C)	DEEP RED	SHORT	OCT. 1	S-4
LESHARA	(D)	MULBERRY	MED.	OCT. 1	S-5
BONFIRE	(D)	BRIGHT RED	MED.	OCT. 1	S-2
* RED MISCHIEF	(C)	DEEP RED	SHORT	OCT. 1	S-1
ROYALIST	(P)	OX-BLOOD	MED.	OCT. 1	P
FIRE ENGINE	(S)	FLAMING RED	MED.	OCT. 1	S-5
VINTAGE	(P)	CLARET RED	MED.	OCT. 1	P
NOBILITY	(D)	DEEP RED	MED.	OCT. 4	P-1
CARD. SPOON	(SP)	RED BRONZE	MED.	OCT. 5	S-2
FIRECRACKER	(D)	MAH. BRONZE	TALL	OCT. 5	S-3
CYDONIA	(D)	MAH. BRONZE	TALL	OCT. 5	S-5
* SEPT. CHEER	(S)	CHERRY RED	MED.	OCT. 5	S-4
BURGUNDY	(LP)	WINE RED	TALL	OCT. 5	S-5
JOHN FURST	(D)	ORANGE BR.	TALL	OCT. 5	P
* RED VELVET	(LD)	DK. CRIMSON	MED.	OCT. 5	P
* MONA	(P)	RUST BRONZE	MED.	OCT. 5	P
INDIAN RED	(D)	RUST	MED.	OCT. 5	S-3
COURAGEOUS	(D)	RUBY RED	MED.	OCT. 5	S-5
* MRS. DUPONT	(LD)	CORAL BUFF	TALL	OCT. 5	P
MONTEREY	(L-INC.)	BRIL. ORANGE	TALL	OCT. 8	P-1

## GARDEN VARIETIES

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>BRONZE &amp; RED</b>					
ARABY	(D)	CRIMSON	TALL	OCT. 8	P-1
AVIATOR	(P)	COPPER	MED.	OCT. 8	S-3
GLADIATOR	(LD)	ORANGE RED	MED.	OCT. 10	S-3
*D CALUMET (H)	(LD)	APRICOT	MED.	OCT. 10	S-1
NINA REBMAN	(P)	DARK RED	MED.	OCT. 10	P-1
DK. CALUMET (H)	(D)	BRONZE	MED.	OCT. 10	P
* DOLLI-ETTE	(SP)	GOLDEN BR.	MED.	OCT. 10	S-2
HUNTSMAN	(LD)	SCARLET OR.	TALL	OCT. 10	P
CARNIVAL	(P)	BURN'T ORANGE	MED.	OCT. 10	P
CARMINE QUEEN	(P)	CARMINE RED	TALL	OCT. 10	P
* INDIANA	(CACTUS)	BRONZE	MED.	OCT. 10	S-1
ADMIRAL	(P)	DARK RED	MED.	OCT. 12	S-3
* PURDUE (H)	(INC.)	BRONZE	MED.	OCT. 12	S-1
CRUSADER	(D)	CRIMSON RED	MED.	OCT. 12	S-3
* RADIANCE	(D)	RED	MED.	OCT. 15	S-1
* JAMES STEWART	(P)	APRICOT GOLD	TALL	OCT. 14	P
* MAJESTIC	(INC.)	BRONZE	MED.	OCT. 15	S-2
RESOLUTE	(D)	BRIGHT RED	MED.	OCT. 15	S-2
WISCONSIN	(INC.)	APRICOT BR.	MED.	OCT. 15	S-1
RAJAH	(S)	SCARLET RED	TALL	OCT. 15	P
HELMA	(D)	RICH RED	MED.	OCT. 15	S-2

**PINK AND LAVENDER**

WENONAH	(P)	SOFT LAVENDER	MED.	AUG. 24	P
GLADNESS	(DP)	CHINA ROSE	SHORT	AUG. 28	S-3
CECIL BEED	(D)	DEEP LAV.	MED.	SEPT. 1	S-5
SALMON PRECOSE	(LD)	SAL. PINK	SHORT	SEPT. 1	S-2
AMELIA	(C)	LAV. PINK	SHORT	SEPT. 5	S-6
DEAN KAY	(C)	SHELL PINK	SHORT	SEPT. 5	S-6
PURPLE STAR	(DP)	BRIL. PURPLE	MED.	SEPT. 5	S-2
* JOAN HELEN	(D)	DK. PURPLE	MED.	SEPT. 10	S-5
NYE'S FAVORITE	(LD)	LAVENDER	MED.	SEPT. 10	S-4
* ORCHID HELEN	(D)	ORCHID LAV.	MED.	SEPT. 10	S-3
PRINCESS (H)	(D)	PEACH TO ROSE PINK	MED.	SEPT. 15	P-1
LORENZO	(SP)	DK. PURPLE	MED.	SEPT. 15	S-3
ROYAL ROBE	(D)	DK. PURPLE	MED.	SEPT. 15	S-3
TENSLEEP	(C)	ROSE PINK	MED.	SEPT. 15	P-1
CHIPPEWA	(D)	BRT. PURPLE	MED.	SEPT. 15	S-4
* PURPLE SPOON	(SP)	SOFT PURPLE	MED.	SEPT. 20	S-3
TAPESTRY	(D)	SALMON PK.	MED.	SEPT. 20	S-4
* MINNPINK	(C)	ROSE PINK	SHORT	SEPT. 20	S-3
* PURPLE WATERS	(D)	DEEP PURPLE	MED.	SEPT. 20	S-3
GAMMY	(P)	ROSE LAV.	MED.	SEPT. 20	P
MINNEHAHA	(C)	ROSY PINK	SHORT	SEPT. 20	S-3
* ALERT	(LD)	DARK PURPLE	MED.	SEPT. 20	S-2
* BLANCHE LITWILLER	(LP)	LAV. PINK	MED.	SEPT. 23	S-1
PINK QUILL	(LD)	SHELL PINK	MED.	SEPT. 25	S-1
OLIVE LONGLAND	(D)	SALMON PINK	MED.	SEPT. 25	S-6
EVANGELINE	(LD)	FLESH PINK	TALL	SEPT. 25	S-3
* JEWELTONE	(P)	ROSE PINK	SHORT	SEPT. 25	S-3
LADY'S CHOICE	(LD)	IVORY PINK	MED.	SEPT. 25	S-3
* REFLECTION	(D)	ROSY LAV.	MED.	SEPT. 25	S-3
* PETRISIAN ROSE	(P)	LAV. ROSE	MED.	SEPT. 25	S-4
* CECILIA	(D)	PURPLE	SHORT	SEPT. 25	S-6
IMP. EARLY WONDER	(P)	LAV. PINK	MED.	SEPT. 25	S-4
* SPELLBOUND	(D)	BRIL. LAVENDER	MED.	SEPT. 25	S-2
CAPT. J. SMITH	(C)	LAV. PINK	SHORT	SEPT. 25	S-6
EVELYN DEVANEY	(D)	SHELL PINK	MED.	SEPT. 25	S-3
PURPLE CUSHION	(C)	DEEP PURPLE	MED.	SEPT. 25	S-5
* MAJOR CUSHION	(D)	LAVENDER	SHORT	SEPT. 25	S-6
COQUETTE	(C)	ROSY PINK	SHORT	SEPT. 25	S-3
* PINK SPOON CUSHION	(SP)	LAV. PINK	SHORT	SEPT. 26	P-1
LOVELINESS	(SP)	CARMINE PINK	MED.	SEPT. 26	P
* PURPLE DUSK	(C)	LT. PURPLE	MED.	SEPT. 26	P-1
EDNA ROWLEY	(B)	LAV. PINK	MED.	SEPT. 26	S-1
MARY HARRISON	(D)	PURPLE	MED.	SEPT. 26	P

## GARDEN VARIETIES

VARIETY	SIZE AND TYPE	COLOR	HEIGHT	MATURES	PRICE
<b>PINK AND LAVENDER</b>					
PURPLE HEART	(D)	PURPLE	MED.	SEPT. 28	P-1
BETTY	(D)	PINK ROSE	TALL	SEPT. 28	S-5
* TWINKLE	(C)	DEEP ROSE	MED.	SEPT. 28	S-5
PAT LEHMAN	(D)	PEACH PINK	TALL	SEPT. 28	S-3
STYLISH	(CACTUS)	OLD ROSE	MED.	SEPT. 28	S-1
* ARISTOCRAT (H)	(LD)	DEEP WINE	MED.	SEPT. 28	S-3
CHAMPAGNE	(D)	SHELL PINK	TALL	SEPT. 28	P
ARTIST'S DELIGHT	(D)	CORAL PINK	MED.	SEPT. 29	S-1
LADY FAIR	(CACTUS)	ORCH. PINK	MED.	OCT. 1	P
TIFFANY ROSE	(S)	DEEP ROSE	MED.	OCT. 1	S-5
OLD LAVENDER	(LD)	BRT. LAVENDER	MED.	OCT. 1	S-2
HELEN BOGUE	(LD)	ROSE PURPLE	TALL	OCT. 1	S-1
* MISCHIEF	(S)	PURPLE	SHORT	OCT. 1	S-1
NORTHERN QUEEN	(LD)	ROSE PINK	MED.	OCT. 5	S-3
* PETRISIAN PINK	(D)	LIGHT PINK	MED.	OCT. 5	S-4
JOSEPHINE FERRIS	(P)	PINK	MED.	OCT. 5	P-1
* LAVENDER LADY	(D)	LAVENDER	TALL	OCT. 5	S-3
* ANN LADYGO	(C)	MED. PINK	SHORT	OCT. 5	P-1
DREAM GIRL	(P)	LT. LAVENDER	MED.	OCT. 10	S-2
BETTY ETTS	(Sp)	ORCHID PINK	MED.	OCT. 10	P-1
TREVANIA	(LD)	CORAL PEACH	TALL	OCT. 10	P-1
* ORCHID SPOON	(Sp)	ORCHID	MED.	OCT. 10	S-4
ROSE SPOON	(Sp)	ROSE PINK	MED.	OCT. 10	S-4
LASSIE	(LD)	DEEP PINK	MED.	OCT. 10	S-3
* MELROSE	(LD)	PEACH PINK	TALL	OCT. 10	P-1
* MASQUERADE	(B)	LAVENDER	MED.	OCT. 10	S-4
* JOYBRINGER	(D)	LAV. ROSE	SHORT	OCT. 10	S-1
* ACCOLADE	(P)	LAV. PINK	TALL	OCT. 12	P-1
ALLEGRO	(C)	SHRIMP PINK	MED.	OCT. 12	S-3
EVELYN GARREN	(L-Inc.)	ROSE & GOLD	MED.	OCT. 12	P-1
* FUCHSIA FAIRY	(D)	LIGHT PINK	SHORT	OCT. 14	P
CUPID	(D)	PINK	MED.	OCT. 15	P
* JEWELL	(B)	LAVENDER	MED.	OCT. 15	P
ENTERPRISE	(P)	AMARANTH ROSE	TALL	OCT. 15	P
ELIZABETH HOOD	(D)	LT. LAVENDER	MED.	OCT. 15	P

## GARDEN VARIETY COLLECTIONS

### COLLECTION PRICES PER 100

300 - 450	500 - 950	1000 Up
6.25	6.00	5.75

For growers who are not familiar with Garden Varieties, but who wish a well balanced assortment, we offer the following collections which include the better varieties for each specific purpose.

#### COLLECTION #1

Taller varieties for cut flowers.

#### COLLECTION #2

Varieties for bedding or borders.

#### COLLECTION #3

50% for Cut Flowers.  
50% for Bedding or Borders.

#### COLLECTION #4

Varieties suitable for Easter, Mother's Day or Memorial Day pots.

#### COLLECTION #5

Cushion varieties only.

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## INSECTICIDES FUNGICIDES & FUMIGANTS

ARAMITE 15W	4-lb. bag	\$ 3.25
CM 19	40-lb. pail	40.00
CHLOROBENZILATE 25W	4-lb. bag	5.80
	Case (12, 4-lb. bags)	52.80
DDT—50 WETTABLE	4 lbs.	2.70
	48 lbs. (12, 4-lb. bags)	28.80
ENDRIN 1.6	1 gal.	12.70
	Case (4 gal.)	46.72
FERBAM (FERMATE)	3 lbs.	2.10
	Case (12, 3-lb. bags)	21.60

### FULEX

#### Parathion Fumigators

For Red Spiders, Aphids and Thrips on florist crops.

Carton (24 cans)

2,000 cu. ft....	\$11.50	10,000 cu. ft....	\$17.00
5,000 cu. ft....	14.50	20,000 cu. ft....	26.00

#### Aphid-Smoke Fumigators

For Aphids and Adult White Flies on florist crops.

Carton (24 cans)

2,000 cu. ft....	\$11.00	10,000 cu. ft....	\$17.00
5,000 cu. ft....	14.00	20,000 cu. ft....	25.00

#### Spider-Mite Fumigators

For Red Spiders, including some Parathion-resistant strains on carnations, chrysanthemums and snapdragons.

Carton (24 cans)

2,000 cu. ft....	\$11.50	10,000 cu. ft....	\$19.00
5,000 cu. ft....	14.50	20,000 cu. ft....	31.00

GRASSELLI SPREADER STICKER	1 gal.	9.00
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KELTHANE EMULSION 18.5	gal.	\$11.00
	Case (4-1 gal.), per gal.	10.80
KELTHANE WETTABLE 18.5	4-lb. bag	5.80
	Case (12, 4-lb. bags)	52.80
MALATHION	4 lb. 25% wettable powder....	3.60
	1 gal. 50% emulsion.....	14.80
NICOTINE FUMIGATORS (Fulex)	—Gives efficient results on Greenhouse Aphids and most Thrips. Contains 14% nicotine (alkaloid).	
	10,000 cu. ft. size (carton of 12).....	9.60
	20,000 cu. ft. size (carton of 12).....	16.20
ORTHOCIDE 50W (Captan)	Carton (10, 5-lb.)	42.50
	5 lbs.	5.75
PLANTFUME 103	5,000 cu. ft. carton—36	12.00
	20,000 cu. ft. carton—12	12.00
PARATHION SPRAY (15% Wettable)	4-lb. bag	2.80
	Case (12, 4-lb.)	31.80
PARZATE		
	Powder	
	3-lb. bag	3.30
	Case (36 lbs.)	35.00
P-40	25 lbs.	12.50
	50 lbs.	22.50
	100 lbs.	40.00
SODIUM SELENATE (Pure)	4 oz.	4.00
	1 lb.	12.50
TERRACHLOR 75WP	—Controls rhizoctonia stem rot by inhibiting growth of fungus.	
	5 lb.	4.75
	Case (10, 5-lb. bags)	45.00
THIODAN 50W	—for aphids, whitefly and cyclamen bite	
	2-lb. bag	5.00
	12 2-lb. bags	52.50
VAPATONE XX	1-gal. can	12.50

We can supply you with any insecticide or fungicide not listed above. Prices subject to change without notice.

## JIFFY POTS

These are now extensively used to hasten programs and smooth out tight situations where a crop may be delayed. The cuttings can be started in a 3" square jiffy preferably and can be pinched in the pot. We caution you to try and bench before the 5th week, as crop may suffer otherwise. Packed 1000 per ctn.

1000 - 9000	\$14.50 per 1000
10,000 - 49,000	13.25 " "
50,000 up	12.00 " "
5 cartons up sent prepaid	

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## BLACK SHADING CLOTH

Black Sheen cloth guaranteed to reduce the light intensity to 2 foot candles or less when shading your early chrysanthemums.

#575—Quality cloth sewn in multiple of 18-inch widths to your specifications.

#258—Extra heavy cloth for longer service sewn in multiples of 18-inch widths to your specifications.

Gloekner's Sheen—A good quality cloth strongly sewn. Competitively priced. 36" widths only.

Knight's Black Sheen—Extra heavy cloth in 18" widths to your specifications.

American Black Sheen—Good quality for inside or outside.

Cloth is approximately 36 inches wide unsewn in rolls or sewn to your dimensions in multiples of 18 inches. There is a loss of about 2 inches per yard in width because of shrinkage in preparation and overlapping in sewing. So allow for this in estimating the width of the cloth you need. Here is a chart to help you estimate the width and length of the cloth required to cover different sized benches or beds with wire placed 4 feet above the bench:

For a bench of this width	Use cloth of this width	And add to length for end hangover
3 feet	12 feet	9 feet
3½	12	8½
4	13½	9½
4½	13½	9
5	15	10

◆WHEN ORDERING...SPECIFY THE TYPE YOU WANT!

Prices available upon request.

Sold To: \_\_\_\_\_ Ship To: \_\_\_\_\_

Date \_\_\_\_\_ When required \_\_\_\_\_ Sold By \_\_\_\_\_

☐ Railway Express ☐ Truck ☐ Parcel Post ☐ Will call ☐ Air Freight

Special Instructions: \_\_\_\_\_

## WHITE POMPONS SINGLES AND ANEMONES

## 7-WEEK VARIETIES

*4940	WHITE CUSHION	S-6
3429	OSTOSA	S-1
880	CHRIS. COLUMBUS	S-4
2510	JESSAMINE WILLIAMS	S-1
2600	LARRY	S-1
2110	HORIZON	S-1
260	BENORA	P
2750	MAESTRO	P
920	CLASSIC	P
4340	SILVERPLATE	P

## 8-WEEK VARIETIES

295	BLIZZARD	S-1
†1425	ECHO	S-1
1651	GARDENIA	S-3
2523	JOAN-ETTE	P-1
1710	GLORIA	S-3
3790	PRISTINE	S-4
4370	SILVERTONE	S-2

## 9-WEEK VARIETIES

3730	POPCORN	S-1
5020	WHITE POPCORN	S-3
3065	MONTY	S-2
4325	SILVER BOW	S-1
2560	KEEPSAKE	S-3
4965	WHITE KEEPSAKE	S-3
3660	PINOCCHIO	S-4
4480	SONGSTER	S-1
1085	CREST	P
4865	VESTA	P
†1105	CRYSTALITE	S-2
2965	MEMENTO	S-2
1950	HALO	S-2
4230	SEA GULL	S-1
35	ALASKA	S-4
4950	WHITE DOTY	S-1
670	CAMILLE BAUMANN	P
4772	THISTLEDOWN	P
†4425	SNOWCLAD	S-5

## 10-WEEK VARIETIES

†4435	SNOW CRYSTAL	S-5
5040	WHITE TOP	S-7
4632	SUPREME WHITE TOP	S-3
1525	TIPTOP	S-4
4795	FEATHERTOP	S-3
2125	ICEBERG	S-8
2740	MADONNA	P
1460	ENCORE	S-3
†3565	PING PONG	P-1
†1465	ENSIGN	S-1
4962	WHITEHOUSE	P-2
‡5033	WHITERION	P-1
†785	CHALK CLIFF	S-4
3430	PASESETTER	S-2
2127	ICE CREAM	P
†4880	VISCOUNT	P-1
2190	ILLINI IGLOO	S-5
*†1275	DAWN STAR	P-1
4310	SHASTA	S-7
*4631	SUPERTOP	P-1
*5003	WH. PENNANT	P-1
2690	LITTLE AMERICA	S-4
†2124	ICE FOLLIES	P-1
2240	ILLINI SNOWDRIFT	S-4
†4527	STARDUST	S-4

## 11-WEEK VARIETIES

5037	WHITE TAFFETA	S-4
4210	SCULPTURE	S-1
5000	WHITE NORMA	P
2248	ILLINI STARFLOWER	P
1935	GRECO'S CARNATION	S-1
†1480	ERMINE	S-1
2700	L.I. BEAUTY	S-2
2020	HIGHBROW	S-3
3230	NEVADA	S-1
†2536	JUPITER	P-1
3780	PRISCILLA	S-2
2525	JOHN BAUMANN	P
2130	ILLINI BOUNTIFUL	P
†4634	SURFSIDE	S-1
3500	PARAMOUNT	S-4
250	BELRAY	S-4
740	CARRARA	S-1

## 12-WEEK VARIETIES

5025	WHITE PRINCESS	P
4335	SILVERCREST	S-1
4970	WHITE LADY	P
2195	ILLINI PEACE	P
790	CHAMP	S-3
5050	WHITE VALENCIA	S-2
970	CORDOVA	P
1590	FORTUNE	S-3
2165	ILLINI GLACIER	P

## 13-WEEK VARIETIES

†4470	SNOWSTORM	S-2
660	CAMEO	S-1
4952	WHITE ENCHANTRESS	P
10	ACCLAIM	S-5
4510	SPANGLES	P
†3290	NORTHWIND	P
2129	ILLINI ALBA	P
5035	WHITE SNOWDROP	S-1
2250	ILLINI STARLET	S-1
2350	IMP. WHITE SUPREME	S-1
5510	YUKON	P
2126	ICECAP	S-5
†4980	WHITE MINSTREL	P-1
4180	SATELLITE	S-1
1365	DOLOMITE	S-1
4430	SNOWCREST	S-2

## 14-WEEK VARIETIES

4830	TRENTON	S-1
4360	SILVERSMITH	S-4
4420	SNOWCAP	S-3
1670	GARZA	S-3
1435	ELEGANCE	S-3
1990	HEIRLOOM	P
4915	WEDDING BELLS	S-1

## 15-WEEK VARIETIES

3990	REVELATION	S-4
4410	SNOW	S-3
4730	TALMEDA	S-2
2145	ILLINI CASCADE	S-3
2230	ILLINI SNOWBOUND	S-1

†These varieties to be sold under agreement only

‡These varieties available June 6, 1960

\*Varieties available after Feb. 1, 1960

# YELLOW POMPONS SINGLES AND ANEMONES

## 7-WEEK VARIETIES

*1757	GOLDEN CUSHION	S-6
*5187	YELLOW CUSHION	S-6
*†1673	GAY BLADE	P-1
5170	YEL. CHRIS. COLUMBUS	S-4
3100	MOONLIGHT	P
3700	POLARIS	P
165	ASTORIA	S-1
820	CHAS. NYE	P
845	CHIQUITA	P
5470	YELLOW SPOON	S-1
2630	LEE POWELL	P
4820	TREASURE	P
400	BRIGHT FORECAST	S-1
2565	KINGS RANSOM	S-2
*1495	ETHEL WATERS	S-2

## 8-WEEK VARIETIES

*3515	PEKING	P-1
5138	YELLOW CALUMET	P
1710	GLORIA	S-3
†4813	TOPFLIGHT	P
5427	YELLOW SILVERTONE	P-1

## 9-WEEK VARIETIES

†4564	SUNDIAL	P-1
4540	STARLIGHT	P
1780	GOLDEN HERALD	S-3
3350	OHIO STATE	P
1730	GOLD COAST	S-5
5200	YELLOW DOT	P
*5278	YELLOW KEEPSAKE	P
1955	HAPPINESS	S-3
4630	SUNUP	S-1
4190	SAUTERNE	S-2
5260	YELLOW HALO	P
4200	SCHN. YELLOW DAISY	S-1
1125	DANDY	S-3
*1124	No. 2 DANDY	P
4545	STATESMAN	S-2
5210	YELLOW DOTY	P
4530	STARBRIGHT	P
*†1517	FLAIR	P-1
†415	BRILLIANCY	S-1
5410	YELLOW SEA GULL	P
4610	SUNRAY	S-1
2090	HONEYMOON	P
*5168	YELLOWCHIP	P-1

## 10-WEEK VARIETIES

220	BARCAROLE	P
5480	YELLOWTOP	S-4
1890	GOLDTOP	P-1
*5478	YEL. TIPTOP	P-1
190	AZTEC	P
2860	MARY HALL	S-2
1080	CRESCENDO	S-4
950	CONSTELLATION	P
5115	YELLOW BEAUREGARD	S-5
5272	YELLOW ICEBERG	S-7
*5271	No. 2 YEL. ICEBERG	P-1
1720	GOLDBERG	P-1
†1743	GOLDEN BANTAM	P-1
†2728	LUMINARY	S-2
†4566	SUNFIRE	S-1
2733	LUXURY	S-2
5420	YELLOW SHASTA	S-7
1065	CREAM SHASTA	S-1
1831	GOLDEN SHASTA	P-1
2485	JEALOUSY	S-1
5273	YELLOW IGLOO	S-4
2015	HEYDAY	S-6
*†5185	YELLOW CRYSTAL	P-1
5355	YELLOW PACESETTER	S-1
1755	GOLDEN CLIMAX	P-1
5247	YEL. ILL. SNOWDRIFT	S-3
†1522	FANFARE	S-1

## 11-WEEK VARIETIES

4505	SOUVENIR	P
1490	ESQUIRE	S-3
5475	YEL. TAFFETA	S-1
†4305	SHANE	P-1
5407	YELLOW SCULPTURE	S-3
3770	PRINCETON	P
1750	GOLDEN CHORD	S-3
1600	FORTY NINER	S-5
1715	GOLD BALL	S-4
4640	SUSAN MILLER	P
2133	ILLINI BONBON	P
2180	ILL. GOLDRIFT	P-1
5290	YEL. L.I. BEAUTY	S-1
5270	YELLOW Highbrow	S-2
2710	LOLLIPOP	S-3
3670	PIPPIN	S-2
2570	KLONDIKE	S-2
5350	YELLOW NEVADA	P

2260	ILLINI SUNSPOT	P
†1510	ETUDE	S-4
4562	SULTAN	P
5360	YELLOW PARAMOUNT	S-3
1815	GOLDEN PARAMOUNT	P-1

## 12-WEEK VARIETIES

1830	GOLDENROD	P
1880	GOLDSMITH	S-4
2030	HIGHLANDER	S-2
4600	SUNNYSIDE	S-3
2275	ILLINI WAMPUM	S-1
5490	YELLOW VALENCIA	S-2
5230	YELLOW FORTUNE	S-1
†1770	GOLDEN FORTUNE	P-1
3360	OMEGA	S-2
5240	YELLOW GALAXY	S-3

## 13-WEEK VARIETIES

975	CORONATION	S-3
†4521	SPUNGOLD	P-1
5095	YELLOW ACCLAIM	S-2
1735	GOLDEN ACCLAIM	S-3
5140	YELLOW CAMEO	P
5215	YELLOW ENCHANTRESS	P
890	CINDERELLA	P
1265	DK. YEL. SATELLITE	S-1
2360	IMP. YELLOW SUPREME	P
990	CORSAIR	S-5
5450	YELLOW SNOWCREST	S-1

## 14-WEEK VARIETIES

2137	ILLINI BRIGHTYES	S-1
5250	YELLOW GARZA	S-1
4300	SHAMROCK	S-2
1320	DECEMBER GOLD	P
1760	GOLDEN ELEGANCE	S-3
4633	SUN VALLEY	S-3
4870	VIBRANT	S-3
4620	SUNRISE	S-1
1740	GOLDEN ANNIVERSARY	P

## 15-WEEK VARIETIES

4380	SIREN	S-2
5520	YULEFLAME	S-2
5430	YELLOW SNOW	S-2
1833	GOLDEN SNOWBOUND	S-1
2290	ILL. YEL. SNOWBOUND	S-1

\*Varieties available after Feb. 1, 1960

†These varieties available June 6, 1960

‡These varieties to be sold under agreement only



# BRONZE & RED POMPONS SINGLES AND ANEMONES

## 7-WEEK VARIETIES

*795	CHAMPION CUSHION ..	S-6
*940	COMMANDER CUSHION	S-6
*2761	MAHOGANY CUSHION	S-6
2985	MESABI .....	S-3
3000	MINNEHAHA .....	S-3
5090	W. P. SNYDER.....	S-1
3966	REMEMBRANCE .....	S-1
32	AGLOW .....	P
2685	LIPSTICK .....	S-2
2120	HUNTSMAN .....	P
3905	RED MISCHIEF .....	S-1
3960	RED VELVET .....	P
690	CARMINE QUEEN .....	P
1363	DOLLI-ETTE .....	S-2
4815	TORONTO .....	P
700	CARNIVAL .....	P

## 8-WEEK VARIETIES

*843	CHEYENNE .....	P-1
*†5545	ZEST .....	P-1
3825	RADIANCE .....	S-1
655	CALUMET .....	S-1
1152	DARK CALUMET .....	P
3840	RAJAH .....	P
3866	RED ENTERPRISE .....	P
2480	JAMES STEWART .....	P
683	CAPRICE .....	S-3
3480	PARADISE .....	P
2762	MAJESTIC .....	S-2
2625	LEE-ETTE .....	P

## 9-WEEK VARIETIES

3975	RESOLUTE .....	S-2
1630	GAIETY .....	S-2
1540	FIREBIRD .....	P
440	BRONZE DOT .....	S-2
4125	SALLY .....	P
600	BUCKSKIN .....	S-2
1370	DOROTHY HYDE .....	P
4560	STUART OGG .....	P
3509	PAXON .....	S-2
*3915	RED REWARD .....	P
4675	SYBIL .....	S-1
427	BRONZECHIP .....	S-4
3511	PEACHCHIP .....	P-1
1560	FIREFLY .....	P

580	BUCCANEER .....	S-1
3940	RED SENECA .....	P
215	BARBARA FULLER .....	P
3220	NAVAHO .....	P
3860	RED DAISY .....	P
*†4735	TANFASTIC .....	P-1

## 10-WEEK VARIETIES

2515	JETFIRE .....	S-4
3225	NECTARINE .....	P
3370	ORANGE BEAUREGARD	S-2
1361	DILLON BEAUREGARD ..	P-1
230	BEAUREGARD .....	S-5
1127	DARK BEAUREGARD .....	S-4
*435	BRONZE DELIGHT .....	P-1
†4840	TUNEFUL .....	P-1
4110	RUBICON .....	S-3
2760	MAGICIAN .....	P
290	BITTERSWEET .....	P
548	BRONZE PORTRAIT .....	P
4160	SAMOVER .....	S-1
†1280	DAYBREAK .....	P
†1692	GILTGLOW .....	S-2
†5085	WIZARD .....	P-1
††437	BRONZE DELUXE .....	P-1
840	CHEVRON .....	P
4770	THE TITAN .....	P
930	CLIMAX .....	S-4
3858	RED CLIMAX .....	P-1
960	COPPERHEAD .....	S-3
3880	RED HUMDINGER .....	S-4
*3881	No. 2 RED HUMDINGER	P-1
500	BRONZE MASTERPIECE..	S-1
1130	DK. BR. MASTERPIECE...	P
3490	PARAGON .....	S-1
78	AMBERHUE .....	P

## 11-WEEK VARIETIES

325	BEAUREGARD SUPREME..	S-2
†4737	TAN VEDOVA .....	P-1
3140	MRS. DEWEY .....	P
4760	THELMA .....	S-4
3848	RANGER .....	S-3
480	BRONZE JUBILATION .....	S-1
76	AMBERCON .....	P-1
2280	ILLINI WARRIOR .....	P
2640	LEGAL TENDER .....	S-1

†687	CARDINAL .....	P-1
4120	RUSTICON .....	S-3
2278	ILLINI WAR PAINT.....	S-1
3355	OLNURA .....	S-1
1530	FESTIVAL .....	P
520	BRONZE MINUET .....	P
4105	RUBAIYAT .....	S-5
3920	RED ROLINDA .....	S-1

## 12-WEEK VARIETIES

†1585	FOREVER AMBER .....	P
2210	ILLINI REDWOOD .....	S-1
470	BR. GOLDSMITH .....	S-3
2430	INDIAN HEAD .....	P
110	APRICOT VALENCIA .....	S-2
1090	CRIMSON VALENCIA ....	P
1640	GALAXY .....	S-3
3375	ORANGE GALAXY .....	P
†3870	RED GALAXY .....	P-1
2060	HOLIDAY .....	S-1
1035	CRACKERJACK .....	S-3
3862	RED EMPRESS .....	P

## 13-WEEK VARIETIES

450	BR. ENCHANTRESS .....	P
3863	RED ENCHANTRESS .....	P
1290	DEBONAIR .....	S-1
2310	IMP. BR. SUPREME.....	P
1960	HARLEQUIN .....	P
870	CHRISTMAS STAR .....	S-3
98	APRICOT MINSTREL .....	P-1
510	BRONZE MINSTREL .....	S-1
1140	DK. BR. MINSTREL.....	S-2
3900	RED MINSTREL .....	S-1
1565	FLAME MINSTREL .....	P

## 14-WEEK VARIETIES

550	BRONZE RIVIERA .....	P
860	CHRISTMAS GREETING	S-4
417	BRONZE ALVODA .....	P-1
2980	MERRYMAKER .....	S-2
3690	POINSETTIA .....	S-2
2185	ILLINI HOMESPUN .....	P-1

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‡These varieties to be sold under agreement only

# PINK POMPONS SINGLES AND ANEMONES

## 7-WEEK VARIETIES

*2780	MAJOR CUSHION	S-6
*3005	MINNPINK	S-3
3807	PURPLE WATERS	S-3
750	CECELIA	S-6
4520	SPELLBOUND	S-2
3033	MISCHIEF	S-1
2530	JOYBRINGER	S-1
†3848	RASPBERRY ICE	P
42	ALERT	S-2
1625	FUCHSIA FAIRY	P
*1626	No. 2 FUCHSIA FAIRY	P

## 8-WEEK VARIETIES

680	CANDYTUFT	P
1115	CUPID	P
15	ACCOLADE	P-1
900	CITATION	P
1470	ENTERPRISE	P
1440	ELIZABETH HOOD	P
2520	JEWELL	P
*4103	ROYAL-ETTE	P-1
3030	MIRTH	P
720	CAROLYN YOSICK	S-1

## 9-WEEK VARIETIES

3600	PINKETTE	S-1
4020	REWARD	S-2
3590	PINK DOT	S-2
†4895	WAGONWHEELS	P
4077	ROSE GAIETY	P-1
†1705	GLAMOUR	S-1
4775	THOMAS JOHNSON	P
320	BLUECHIP	S-7
3575	PINKCHIP	S-2
1155	DARKCHIP	S-3
†1953	HANDSOME	S-2
2670	LILLIAN DOTY	P
4740	TEMPO	S-1

## 10-WEEK VARIETIES

†2973	MERMAID	S-6
4500	SOUTHDOWN PINK	S-1

3505	PARISIENNE	S-2
1347	DELIGHT	S-3
3740	PORTRAIT	S-6
3635	PINK PORTRAIT	S-2
3800	PROFILE	S-2
1095	CRITERION	S-6
†1623	FROLIC	P-1
355	BONNIE	S-2
3520	PENNANT	S-4
2128	ILLINI ACCENT	P
†3580	PINK DELUXE	S-6
3685	PLUM	S-1
3525	PERSONALITY	S-6
1247	DK. PK. PANDORA	P
3460	PANDORA	S-2
4205	SCINTILLATION	S-1
2680	LINDA LOU	P
2115	HUMDINGER	S-5
2920	MASTERPIECE	S-2
4080	ROSE MASTERPIECE	S-1
†835	CHEERFUL	S-3

## 11-WEEK VARIETIES

4710	TAFFETA	S-3
1251	DARK TAFFETA	P
†3665	PIONEER	P-1
1210	DARK NORMA	P
†1985	HEATHER	P-1
2533	JUBILATION	S-3
†4079	ROSE JUBILATION	P-1
2245	ILLINI SPRINGTIME	P
4855	VEDOVA	S-2
†810	CHARM	P-1
†4522	STACCATO	P
4025	RHYTHM	P
1920	GRAND SLAM	P
60	ALMEGA	S-3
1126	DARK ALMEGA	P
3610	PINK L.I. BEAUTY	P
4858	VENOYA	S-3
†328	BLUE SKIES	P-1

†760	CELEBRITY	S-2
3020	MINUET	S-1
2160	ILLINI FORMAL	S-1

## 12-WEEK VARIETIES

1348	DELMAR	S-4
†1355	DESIRE	P
†2645	LEGEND	P-1
††2017	HI-FI	P-1
240	BEAUTIFUL LADY	S-1
††4519	SPLENDOR	P-1
4850	VALENCIA	S-2
1250	DARK VALENCIA	S-2
4140	SALMON VALENCIA	P
2010	HERITAGE	P
1447	EMPRESS	P

## 13-WEEK VARIETIES

1445	EMINANCE	P
1450	ENCHANTRESS	S-1
1160	DARK ENCHANTRESS	P
3637	PINK SNOWDROP	S-1
1300	DEBUTANT	S-2
†3805	PROM	P-1
3640	PINK SUPREME	P
2320	IMP. DARK SUPREME	P
3010	MINSTREL	S-3
1675	GAY MINSTREL	P-1
1235	DK. PINK MINSTREL	S-2
2335	IMP. PINK MINSTREL	S-2

## 14-WEEK VARIETIES

65	ALVODA	S-4
1128	DARK ALVODA	P-1
4040	RIVIERA	S-1
4070	ROSALIND	P
1340	DEFIANCE	P
2950	MEDALLION	S-1
2738	LYNDA MCLANE	S-1

\*Varieties available after Feb. 1, 1960

†These varieties available June 6, 1960

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## WHITE STANDARDS

### 8-WEEK VARIETIES

5008	WHITE PINK CHIEF.....	S-5
4350	SILVER SHEEN .....	S-3
3275	No. 2 WHITE CHIEF.....	S-1

### 9-WEEK VARIETIES

4345	SILVER QUEEN .....	S-1
2795	MARBLEHEAD .....	S-2
†3823	QUICKSILVER .....	P-1
1930	GRANITE STATE .....	S-2
70	AMBASSADOR .....	S-2
†3115	MOONTIDE .....	P
*1368	DONLOPE'S WH. SPIDER	P
3820	QUEENS LACE .....	S-4
5070	WILSONS WHITE .....	S-5
3695	POITEVINE SUPREME .....	P-1
2785	MALOU .....	P-1
40	ALBATROSS .....	S-6
4975	WHITE MARY GARDEN..	S-1

### 10-WEEK VARIETIES

†4765	THEMESONG .....	P-1
2732	LUNA .....	S-2
3507	PATTERSON'S WHITE .....	S-2
‡5024	WHITE PRINCE .....	P-1
2410	IND. WHITE .....	S-8
2325	IMP. IND. WHITE .....	S-8
2411	IND. No. 3 WHITE.....	P-1
1690	GIANT BETSY ROSS.....	S-7
3235	NIGHTINGALE .....	S-2
5030	WHITE RAYONNANTE ..	S-3
3422	OREGON .....	S-8
4917	WHIRLWIND .....	P
4635	SUSAN LEIGHTON .....	P
2490	JEAN ELIZABETH .....	P
1110	CRYSTAL QUEEN .....	S-5
2960	MEFO .....	S-7
3070	MONUMENT .....	S-2

*4755	THE FAVORITE .....	P-1
1603	FRED SHOESMITH .....	S-6

### 11-WEEK VARIETIES

4550	STERLING .....	S-1
2830	MARKETEER .....	S-3

### 12-WEEK VARIETIES

5005	WHITE PETER JOHN.....	S-1
830	CHATTANOOGA .....	S-4
1310	DECEMBER GLORY .....	S-3
2800	MARGARET MOELLER .....	S-1

### 13-WEEK VARIETIES

4990	WHITE MISTLETOE .....	P
4400	SMITHS WHITE .....	S-5
1330	DECEMBER WHITE .....	S-1
4460	SNOWLINE .....	P

## YELLOW STANDARDS

### 8-WEEK VARIETIES

1975	HARVEST GOLDEN .....	S-2
1850	GOLD LODE .....	S-1
770	CELESTRA .....	P
5165	YELLOW CHIEF .....	P-1
4563	SUNBURST .....	P
3160	MRS. KIDDER .....	S-3
610	BUTTERBALL .....	S-1
300	BLAZING GOLD .....	S-4

### 9-WEEK VARIETIES

2948	MECCA .....	P-1
5295	YEL. MARBLEHEAD .....	S-1
1685	GEORGIA .....	S-1
5100	YELLOW AMBASSADOR	S-1
2735	LUYONA .....	S-4
4570	SUNGLOW .....	S-1
3190	MRS. WOLFE .....	P-1
5280	YELLOW LACE .....	S-2
1840	GOLD LACE .....	S-4
*1745	GOLDEN BOY .....	P-1
5080	WILSONS YELLOW .....	S-2
1910	GOOD NEWS .....	S-8
5275	YELLOW IVANHOE .....	S-1
5098	YELLOW ALBATROSS .....	P

### 10-WEEK VARIETIES

‡5373	YELLOW PRINCE .....	P-1
1746	GOLDEN CALYPSO .....	P-1
2330	IMP. IND. YELLOW.....	S-8

2420	IND. YELLOW .....	S-6
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2385	IND. GOLD .....	S-3
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2383	IND. CREAM .....	P-1
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1180	DK. IND. YELLOW.....	S-4
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775	CHAIRMAN .....	S-1
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†685	CAPRICORN .....	P-1
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†1515	EXPLORER .....	P-1
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3425	OREGON TRAIL .....	P-1
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5130	YELLOW BETSY ROSS....	S-2
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2355	IMP. YEL. RAYONNANTE	S-3
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5285	YELLOW LEIGHTON .....	P
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5305	YELLOW MARVEL .....	P-1
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1915	GORDON WELLS .....	P
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5135	YELLOW CALYPSO .....	S-1
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5195	YELLOW DELAWARE .....	S-9
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5380	YELLOW QUEEN .....	S-4
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‡5381	No. 2 YELLOW QUEEN..	P-1
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†4195	SCEPTER .....	P-1
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5310	YELLOW MEFO .....	S-6
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1050	CREAM MEFO .....	S-3
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5330	YELLOW MONUMENT ..	S-1
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5375	YEL. PRINCESS ANNE....	S-1
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1832	GOLDEN SHOESMITH .....	S-5
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5425	YEL. SHOESMITH .....	S-5
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1765	GOLDEN FAVORITE .....	P-1
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5495	YEL. WAIKIKI .....	S-2
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### 11-WEEK VARIETIES

5300	YELLOW MARKETEER .....	S-1
‡5493	YELLOW VALENTINE .....	P-1
350	BONNAFFON DELUXE ..	S-8
1620	FRIENDLY RIVAL .....	S-2
1970	HARVESTER .....	S-4
2810	MARIE DEPETRIS .....	S-3

### 12-WEEK VARIETIES

5365	YELLOW PETER JOHN....	P
1260	DK. YEL. CHATT'NO'GA	S-2
5160	YEL. CHATTANOOGA .....	S-2
1820	GOLDEN PEARSON .....	S-2
4580	SUNGOLD .....	P
5255	YELLOW GLORY .....	S-2
‡5256	No. 2 YELLOW GLORY..	P-1
1810	GOLDEN MRS. ROSS....	S-2
1790	GOLDEN MOELLER .....	P-1

### 13-WEEK VARIETIES

4800	TOBINS YELLOW .....	S-4
‡4405	SMITH'S YELLOW .....	P-1
4385	SMITHS CREAM WHITE..	S-5
2990	METEORE .....	S-2
1270	DAUNTLESS .....	P

\*Varieties available after Feb. 1, 1960

‡These varieties available June 6, 1960

†These varieties to be sold under agreement only

## BRONZE & RED STANDARDS

### 8-WEEK VARIETIES

75 AMBER BRIGHT ..... S-2  
2943 MAYFORD TITAN ..... P-1

### 9-WEEK VARIETIES

\*4565 SUNDOWN ..... P-1  
2050 HILDA BERGEN ..... P  
5550 ZYLON ..... P  
3163 MRS. PALMERO ..... P-1  
543 BRONZE-PALMERO ..... P-1  
2450 IVANHOE ..... S-1  
1360 DETROIT NEWS ..... S-6  
4100 ROYAL BRONZE ..... S-2  
1395 DUCHESS ..... S-1  
48 ALEX COLSON ..... P-1  
1605 FRED YULE ..... S-2

### 10-WEEK VARIETIES

2380 IND. BRONZE ..... S-5  
2375 INDIANAP'LIS APRICOT S-1

1170 DK. IND. BRONZE ..... S-5  
‡549 BRONZE PRINCE ..... P-1  
1680 GENA HARWOOD ..... S-1  
3270 NOMAGO ..... P  
2790 MAMORU ..... P  
4893 VULCAN ..... P-1  
3950 RED STAR ..... P-1  
995 COSSACK ..... P-1  
4165 SANDROCK ..... P-1  
1345 DELAWARE ..... S-8  
2367 INCURVED DELAWARE... S-3  
425 BRONZE CALYPSO ..... S-1  
90 ANACONDA ..... S-2  
540 BR. ORCHID QUEEN..... S-1  
5087 WORKING SCARLET ..... P-1  
965 COPPER QUEEN ..... S-2  
‡4072 ROSAMOND ..... P-1  
3170 MRS. ROY ..... S-4

### 11-WEEK VARIETIES

‡1965 HARMONY ..... P-1  
195 BALCOMBE'S PERF. .... S-3  
3855 RED BALCOMBE'S PERF. S-3  
3155 MRS. EISENHOWER ..... P  
‡935 CLIPPER ..... P-1  
4825 VALENTINE ..... S-4  
657 CALVERT'S GOLD ..... S-3  
\*228 BEACON ..... P-1  
\*659 CALVERT'S ORANGE .... P-1

### 12-WEEK VARIETIES

547 BR. PETER JOHN..... S-1  
1700 GLADY'S PEARSON ..... S-2  
3340 OAK LEAF ..... S-2  
‡3341 No. 2 OAK LEAF..... P-1  
3200 MUTO'S CRIMSON ..... P

## PINK STANDARDS

### 8-WEEK VARIETIES

3570 PINK CHIEF ..... S-3  
2775 MAJOR BOWES ..... S-1

### 9-WEEK VARIETIES

325 BLUE RIBBON ..... S-5  
‡1249 DARK RIBBON ..... P-1  
‡3636 PINK RIBBON ..... P-1  
‡3523 PERLE ANGEVINE ..... P-1  
2850 MARY GARDEN ..... S-1  
3810 QUEEN OF PINKS..... S-4  
605 BUNBU ..... S-2  
380 BRIDESMAID ..... P-1

### 10-WEEK VARIETIES

\*‡3038 MISS AMERICA ..... P-1  
2400 INDIANAPOLIS PINK .... S-7  
2540 J. W. PRINCE ..... P  
‡4853 VANGUARD ..... P-1  
2725 LOUBENS ..... P-1  
3850 RAYONNANTE ..... S-2  
3390 ORCHID QUEEN ..... S-3  
2620 LAVENDER QUEEN ..... S-3  
1220 DK. ORCHID QUEEN..... S-4  
2605 LAUGHTER ..... S-3  
3762 PRINCESS ANNE ..... S-1  
3603 PINK FRED SHOESMITH.. P-1  
‡‡4817 TRADEWINDS ..... P-1

### 11-WEEK VARIETIES

155 ARISTOCRAT ..... P  
658 CALVERT'S PINK ..... S-1  
2000 HELEN FRICK ..... S-1  
4750 THANKS. PINK ..... S-2  
1430 ED. SEIDEWITZ ..... P

### 12-WEEK VARIETIES

‡‡4090 ROYAL ..... P-1  
1248 DK. PK. PETER JOHN..... P

### 13-WEEK VARIETIES

3620 PINK MISTLETOE ..... P

\*Varieties available after Feb. 1, 1960

†These varieties to be sold under agreement only

‡These varieties available June 6, 1960

## PRICE TABLE

All prices are per 100 cuttings except the first column on the left.

Fifty cuttings are priced per 50.

Price Classifica- tion	PRICE PER 100				
	50 only	100-250	300-450	500-950	1000 & up
S-9	3.25	6.25	6.00	5.75	5.50
S-8	3.38	6.50	6.25	6.00	5.75
S-7	3.50	6.75	6.50	6.25	6.00
S-6	3.63	7.00	6.75	6.50	6.25
S-5	3.75	7.25	7.00	6.75	6.50
S-4	3.88	7.50	7.25	7.00	6.75

Price Classifica- tion	PRICE PER 100				
	50 only	100-250	300-450	500-950	1000 & up
S-3	4.00	7.75	7.50	7.25	7.00
S-2	4.13	8.00	7.75	7.50	7.25
S-1	4.25	8.25	8.00	7.75	7.50
P	4.38	8.50	8.25	8.00	7.75
P-1	4.50	8.75	8.50	8.25	8.00

PRICES EFFECTIVE JANUARY 4, 1960

SUBJECT TO CHANGE WITHOUT NOTICE


  
**Fred C. Gloeckner & Company, Incorporated**

15 EAST 26th STREET  
 At Madison Square  
 NEW YORK 10, N. Y.





# FLOWER HOLIDAY CALENDAR

YEAR	VALENTINE'S DAY	EASTER	MOTHER'S DAY	MEMORIAL DAY	SWEETEST DAY	THANKSGIVING	CHRISTMAS
1960	FEB. 14	APRIL 17	MAY 8	MAY 30	OCT. 15	NOV. 24	DEC. 25
1961	FEB. 14	APRIL 2	MAY 7	MAY 30	OCT. 21	NOV. 23	DEC. 25
1962	FEB. 14	APRIL 22	MAY 6	MAY 30	OCT. 20	NOV. 22	DEC. 25

1960

1961

## JANUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## JULY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## FEBRUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

## AUGUST

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## MARCH

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## SEPTEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

## APRIL

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

## OCTOBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## MAY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## NOVEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

## JUNE

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## DECEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## JANUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## JULY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## FEBRUARY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

## AUGUST

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## MARCH

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## SEPTEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

## APRIL

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

## OCTOBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## MAY

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## NOVEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

## JUNE

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

## DECEMBER

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

